SEISMOLOGICAL BULLETIN OF SYOWA STATION, ANTARCTICA, 2013

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1. Introduction

Seismic observations at Syowa Station (69.0°S, 39.6°E), East Antarctica, began in 1959 using a short-period seismometer with a natural period of 1.0 s (Eto, 1962). In 1967, a long-period seismograph was installed, and phase readings of teleseismic events (i.e., the detection of arrival times and amplitudes for significant seismic phases) were reported in near real-time to the United States Geological Survey (USGS) and to the International Seismological Centre (ISC) (Kaminuma *et al.*, 1968). A three-component broadband seismometer (STS-1; Wielandt and Steim, 1986) was installed in 1989, in order to contribute to the Federation of Digital broadband Seismograph Networks (FDSN; http://www.fdsn.org), together with other key stations of the PACIFIC21 Japanese regional network. Figure 1 shows the present-day distribution of FDSN stations in Antarctica.

During 2013, all of the observation systems at Syowa Station were maintained by one of the present authors (N. Obara) throughout the wintering season of the 54th Japanese Antarctic Research Expedition (JARE-54). In this report, we introduce the seismic observations made in 2013, and

provide scaled read-out travel-time data and a list of detected teleseismic earthquakes. We also provide information on public access to these data via the Internet.

2. Observations

The original seismic observation systems at Syowa Station were replaced with the current recording system (Fig. 2) by one of the present authors (M. Kanao) in 1997 (Kanao, 1999).

2.1. Seismographic hut and seismographs

Seismic observations at Syowa Station have generally been carried out using two types of seismometers. The first is a short-period seismometer (HES) with a 1.0-Hz eigenfrequency of the pendulum, which has been operated since 1967 (Kaminuma *et al.*, 1968). The overall frequency responses and the magnifications of the HES seismographs (Hagiwara, 1958) are shown in Fig. 3. The second is a three-component broadband seismometer (Streckeisen STS-1) with a digital recording system, which has been operating since 1990 (Nagasaka *et al.*, 1992). For this seismometer, the amplitude and phase responses for the velocity output (Broadband; BRB) are shown in Fig. 4 (after Streckeisen and Messegeraete, 1987).

The current seismographic hut was built in 1996, and all of the sensors in the old vault were moved into the new hut in 1997. The new hut is located about 200 m north of the old vault, at WGS84 geodetic coordinates of 69°00′24.0″S, 39°35′06.0″E (20 m above mean sea level). Because the long-period output signals from the broadband seismographs may be affected by variations in temperature and atmospheric conditions, the seismometers were installed in a small, thermally insulated room in the hut. The entire outside surface of the hut is covered by titanium to maintain a constant temperature.

Seismic signals from the HES and STS-1 are transmitted to the Earth Science Laboratory (ESL) via analog cables (600 m in length) through the main buildings of Syowa Station.

2.2. Acquisition system at the Earth Science Laboratory

The three-component analog outputs of HES were digitized at a sampling frequency of 200 Hz by a 24-bit analog-to-digital (A/D) converter, generating triggered signals of 80-Hz and 1-Hz re-sampling data and 20-Hz continuous outputs. The signals of the three-component broadband STS-1 were also digitized to create triggered output of 80-Hz re-sampling data and continuous outputs of 20-, 1-, 0.1-, and 0.01-Hz data. All the waveform data were formatted as a Mini_SEED volume, which is a standard format for data exchange in global seismology. The digitized data were automatically transmitted from the A/D converter to a workstation via TCP/IP protocol. All data were stored on the 40-GB hard disk of the workstation, and then copied onto DAT or 8-mm tape at 3-month intervals. The recording status of the A/D converter was continuously monitored by a personal computer via an RS-232C serial port.

Remote-centering of the mass position for the STS-1 sensors can be carried out by keyboard commands from the computer using 'Kermit' communication software. The reference clock for the new system has been calibrated to Universal Time Coordinated (UTC) by detecting time codes by GPS. Long-term analog-recorders for the HES and BRB output of the STS-1 are operated in ESL. The boom-POSition output (POS) of the STS-1 seismograph is monitored by an RD2212-type analog recorder, together with the temperature in the sensor room.

2.3. Data transmission via INTELSAT

Since 1993, the digital waveforms of both broadband and short-period seismographs have been transmitted from Syowa Station to the National Institute of Polar Research (NIPR) via an INMARSAT telecommunication link. Waveform data transmission was greatly improved by using an INTELSAT communication link, established in February 2004. During the 2013 winter season, continuous data of both HES and STS-1 (sampling frequency of 20 Hz) were automatically transmitted to NIPR once a day from the acquisition workstation, using the UUCP protocol for data transfer.

In addition to remote monitoring of the data acquisition system from NIPR, Internet access to the Syowa facilities has improved markedly since 2005, with the development of the INTELSAT system. Moreover, a Web camera, employing the Station LAN, was installed inside ESL, followed by improved monitoring of the analogue recorders during periods when the access was impossible to the ESL due to the bad weathers.

3. Data

By using the waveform data transmitted via INTELSAT, arrival-time information of major seismic phases (herein termed 'read-out data') is regularly sent from NIPR to USGS/NEIC (National Earthquake Information Center) via email, to contribute to the weekly and monthly Preliminary Determination for Epicenters (PDE) bulletins. The Quick Earthquake Determination (QED) services offered by NEIC are used to identify the seismograms of teleseismic events. This report lists the arrival-time data and corresponding hypocentral data of teleseismic events recorded during 2013. The phase arrival-times of teleseismic events are detected on short-period digital monitoring seismograms. Most phases were scaled on the vertical component; only clear phases of shear waves were scaled on the horizontal components. These phases were identified by comparing the observed travel-time with the calculated time within a time difference of 3 s. The phases identified as *P*- and *S*-waves are listed in Table 1. The phase *K* denotes the *PKP* phase, which can be identified within a time difference of 3 s by comparing the observed travel-time with the calculated time. *X* denotes a clear phase whose wave type can be identified but for which the observed travel time was within 3–10 s of the calculated time. The symbols *E* and *I* in the phase column denote emergent and sharp onsets, respectively. The initial ground motion is denoted by + for upward motion and by - for downward motion. Arrival time is given in UTC and the accuracy of the read-out data is 0.2 s. The teleseismic events identified in the PDE are indicated by serial numbers (#-xxx) in the table. These serial numbers correspond to those in the list of hypocentral parameters in Table 2. Events without serial numbers are teleseisms whose locations have not been determined

by NEIC. Figure 5 shows the hypocenters of the teleseismic events whose initial phases were detected at Syowa Station.

4. Publication

The seismic waveform data, which are continuously transmitted to NIPR and stored in the data library server, are accessible upon request via the Internet and/or by UNIX-formatted media (CD-R, DAT, etc.). The present authors hereby grant permission for the use of these data in scientific publications. All kinds of archived seismic data (e.g., arrival times, hypocenters, analog and digital waveform data, and related document reports) recorded at Syowa Station have been accumulated and are available from the data library server (POLARIS; URL: http://polaris.nipr.ac.jp/~pseis/syowa). These data can be accessed by using the 'ftp' command with a password. If you are interested in using these data for scientific research, please contact *kanao [at] nipr.ac.jp* for information on availability of the data.

Archived data (i.e., data collected more than 2 years ago) are stored and are freely available from both the NIPR ftp site and from the PACIFIC21 center of the Japan Marine Science and Technology Agency. Any questions concerning data availability from PACIFIC21 should be directed to *y-ishihara [at] jamstec.go.jp.*

5. Data-Processing Staff

The seismic observation system at Syowa Station was designed by M. Kanao of NIPR. The authors express their sincere thanks to Ms. A. Ibaraki of NIPR for her efforts in scaling the seismic data. Information on data access is available at http://polaris.nipr.ac.jp/~pseis/syowa.

References

Eto, T. (1962): On the electromagnetic seismographs at Syowa Base, Antarctica. Nankyoku Shiryô (Antarct. Rec.), **14**, 1168–1170 (in Japanese with English abstract).

Hagiwara, T. (1958): A note on the theory of the electromagnetic seismograph. B. Earthquake Res. Inst., **36**, 139–164. http://hdl.handle.net/2261/11911.

Kaminuma, K., Eto, T. and Yoshida, M. (1968): Seismological observation at Syowa Station, Antarctica. Nankyoku Shiryô (Antarct. Rec.), **33**, 65–70 (in Japanese with English abstract).

Kanao, M. (1999): Seismological bulletin of Syowa Station, Antarctica, 1997. JARE Data Rep., **236** (Seismology **33**), 65 p.

Nagasaka, K., Kaminuma, K. and Shibuya, K. (1992): Seismological observations by a three-component broadband digital seismograph at Syowa Station, Antarctica. Recent Progress in Antarctic Earth Science, ed. by Y. Yoshida *et al.* Tokyo, Terra Sci. Publ., 595–601 (TERRAPUB e-Library). http://www.terrapub.co.jp/e-library/aes/pdf/RP0595.PDF.

Streckeisen, G. and Messegeraete, A.G. (1987): Very-broad-band Feedback Seismometers STS-1V/VBB and STS-1H/VBB Manual. 34–35.

Wielandt, E. and Steim, J.M. (1986): A digital very-broad-band seismograph. Ann. Geophys., **4**, Ser. B, 227–232.

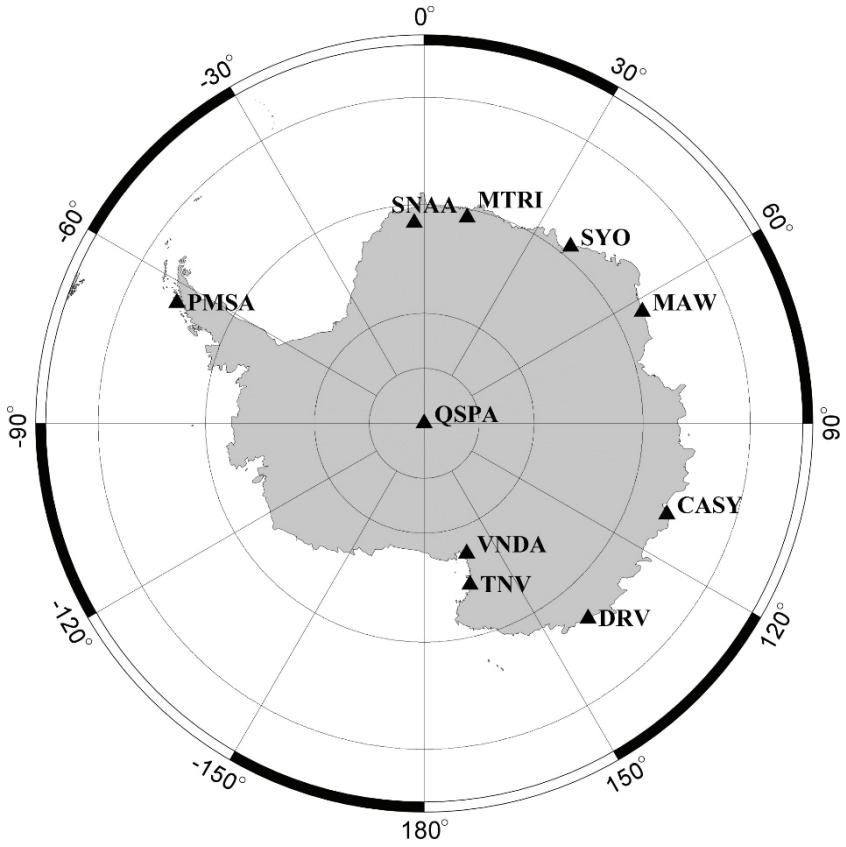

Fig. 1. Distribution of FDSN stations on the Antarctic continent in 2015. Syowa (SYO), Mawson (MAW), Casey (CASY), Dumont d'Urville (DRV), Terra Nova Bay (TNV), Vanda (VNDA), South Pole (QSPA), Palmer (PMSA), Sanae (SNAA), Maitri (MTRI).

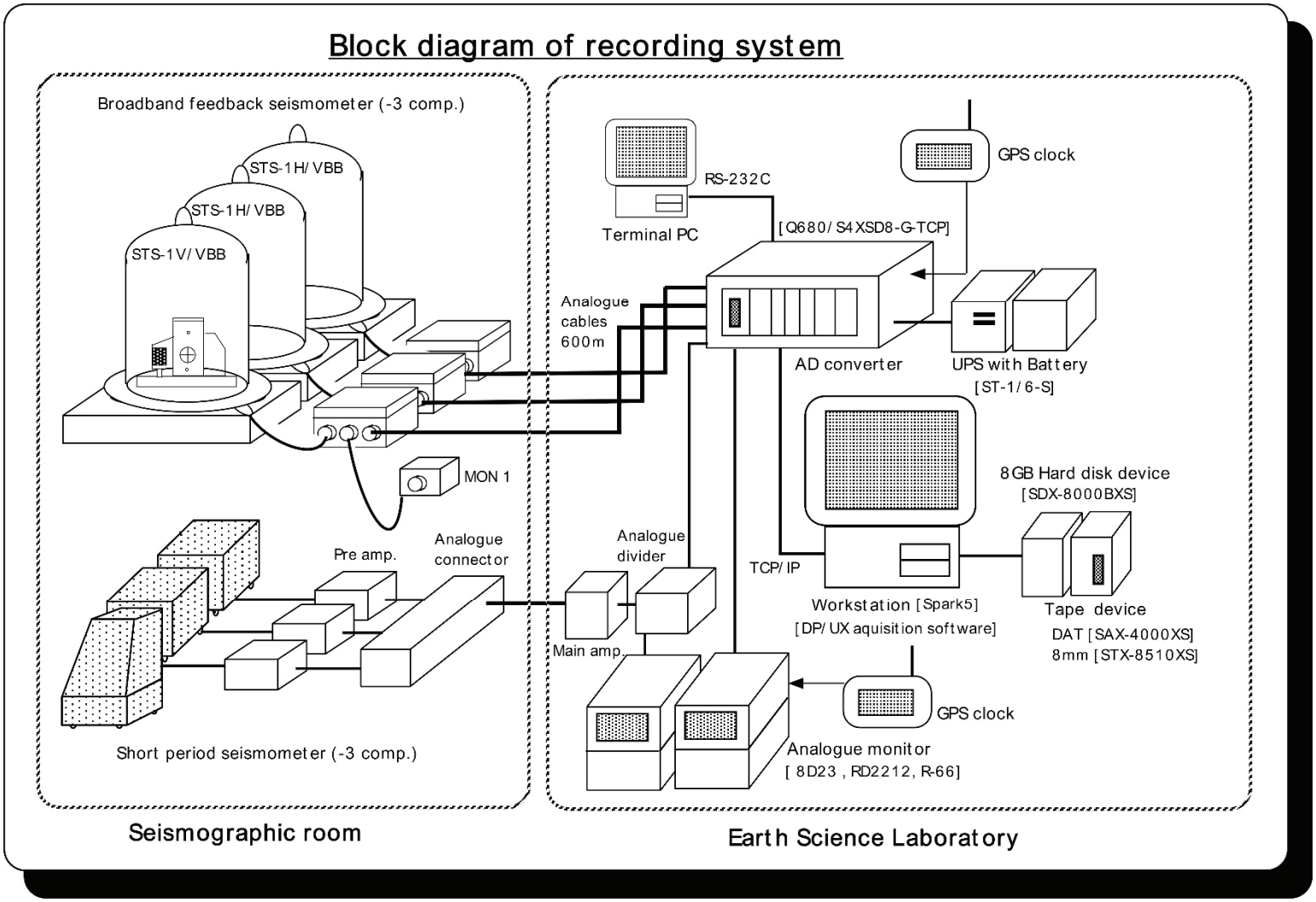

Fig. 2. Block diagram of new recording system for the STS and HES seismographs at Syowa Station. Left figure: Seismographic room; Right figure: Earth Science Laboratory.

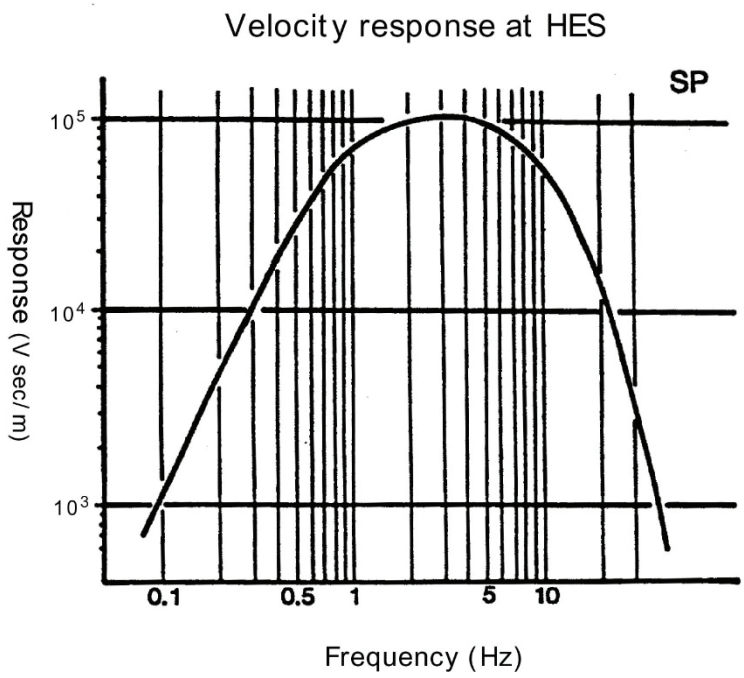

Fig. 3. Over-all frequency responses of the HES seismographs. (Modified after Hagiwara, 1958).

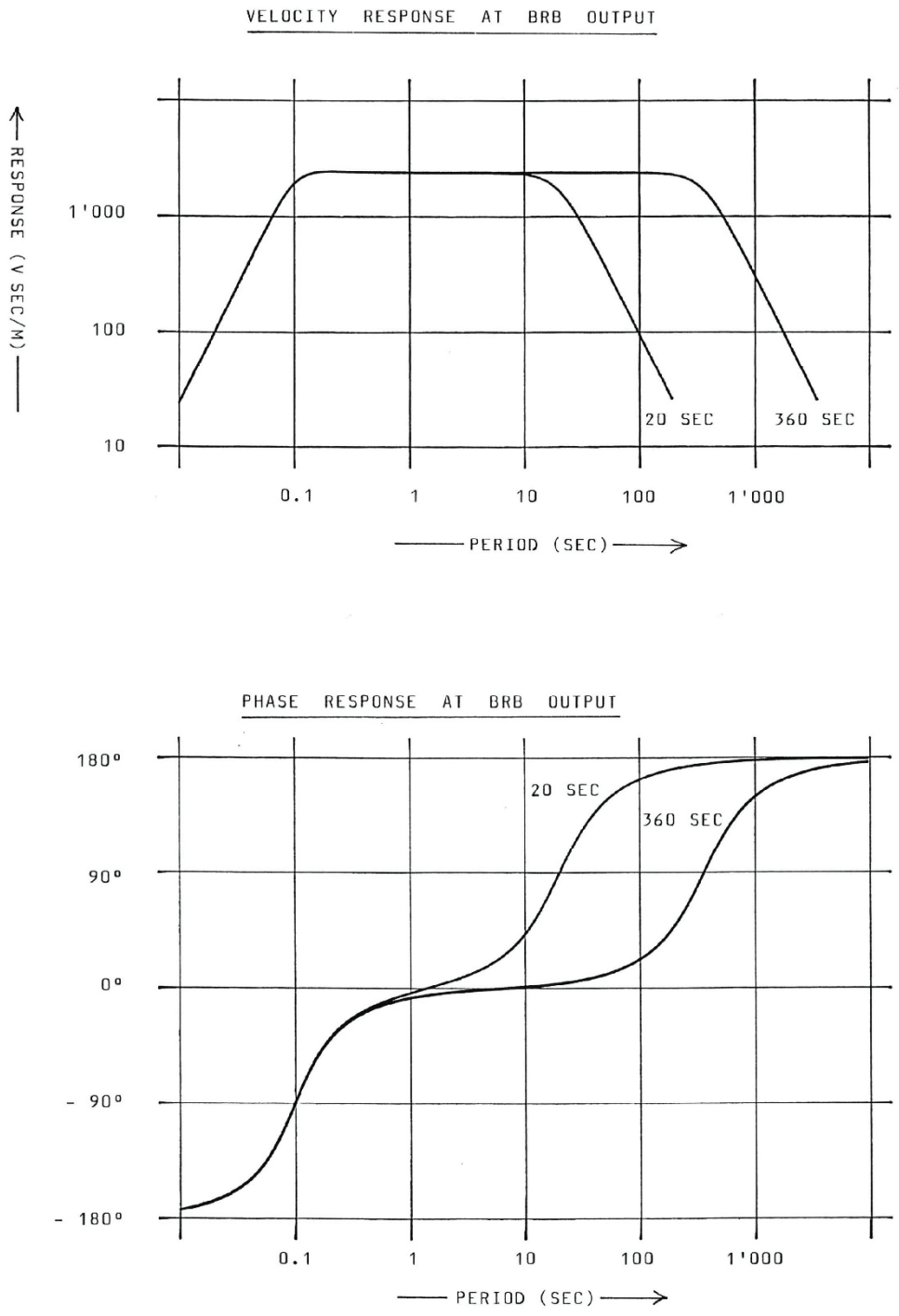

Fig. 4. Amplitude responses (upper figure) and phase responses (lower figure) for the velocity (BRB) output of the broadband seismograph (STS) in the two distinct signal modes of 20-s and 360-s (after Streckeisen and Messegeraete, 1987).

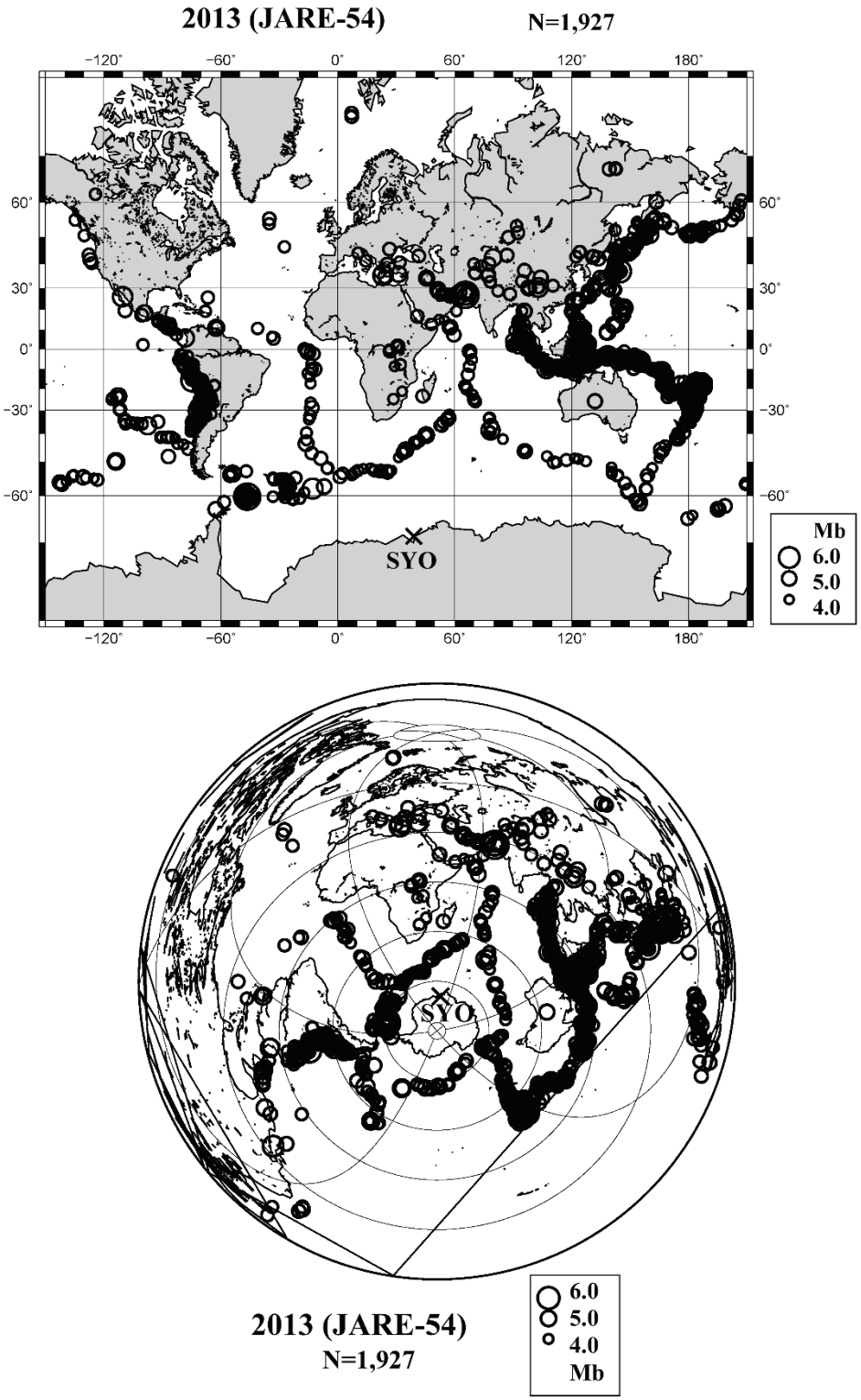

Fig. 5. Epicenters of the 1,927 earthquakes recorded at Syowa Station. The sizes of earthquake circles are proportional to the body-wave magnitude (Mb) determined by the National Earthquake Information Center (NEIC) (upper: Mercator Projection, lower: Azimuthal Equidistant Projection).

Table 1. List of phase arrival-time data in 2013.

Date	Phase	Time H	M	S	Remarks
Jan.1	+EPZ	04	02	56.0	
1	−EXZ	07	52	36.0	#-1
1	+EPZ	08	41	32.6	
1	+EPZ	08	50	57.0	#-2
1	+EPZ	09	04	23.0	
1	−EPZ	11	21	36.8	
1	+EPZ	12	28	34.0	
1	+EpPZ	12	33	35.0	#-3
1	−EPZ	13	22	47.6	
1	+EPZ	15	12	28.8	
1	−EPZ	15	31	24.4	#-4
1	+EsPZ	15	31	30.2	#-4
1	+EPZ	17	18	47.2	
1	+EPZ	20	17	44.0	
1	−EPZ	22	14	52.8	
2	+EPZ	02	12	1.4	
2	+EPZ	02	34	58.0	#-5
2	+EpPZ	02	35	9.8	#-5
2	+EPZ	07	38	42.6	
2	+EPZ	08	08	32.5	
2	−EPZ	12	45	14.6	
2	+EPZ	14	53	41.6	
2	−EPZ	15	09	18.4	#-6
2	+EPcPZ	15	09	32.0	#-6
2	+EPZ	16	09	1.4	#-7
2	+EPcPZ	16	09	4.2	#-7
2	+IPZ	18	04	32.0	
3	+EPZ	00	15	2.8	#-8
3	−IPcPZ	00	15	4.2	#-8
3	−IpPZ	00	15	8.2	#-8
3	+EPZ	00	19	51.8	
3	+EPZ	01	47	29.0	
3	+EPZ	13	19	23.0	
3	+EPZ	18	05	13.4	
3	+EPZ	20	11	1.6	
3	+EPZ	23	23	35.0	
4	−EPZ	03	12	55.0	#-9
4	+EPZ	04	24	13.0	
4	+EPZ	04	24	17.2	
4	+IPZ	06	20	19.0	
4	+IPZ	06	39	16.2	
4	+EPZ	08	38	25.0	
4	+EPZ	10	22	47.0	#-10
4	+EPcPZ	10	22	56.6	#-10
4	−EPZ	11	22	54.6	
4	+EPZ	12	14	25.0	
4	+EPZ	12	14	29.4	
4	+EPZ	13	26	48.8	#-11
4	+EsPZ	13	26	53.4	#-11
4	+EPZ	14	23	32.4	
4	−EPZ	14	23	35.0	
4	−EPZ	18	12	1.0	
4	−EPZ	20	11	29.9	
4	+EPZ	20	37	35.6	#-12
4	+EPZ	21	40	38.6	
4	+EPZ	23	28	47.3	#-13
4	−IpPZ	23	29	5.4	#-13
5	−EPZ	00	10	37.0	
5	+IPZ	03	07	35.1	
5	−EPZ	03	32	17.2	
5	+EPZ	03	32	20.8	
5	+IpPZ	04	10	46.0	#-14
5	+EPdiffZ	04	26	45.3	#-15
5	−EPZ	05	50	8.4	
5	−EPZ	06	11	16.6	
5	+EPZ	06	25	53.0	
5	+EPZ	07	19	18.6	
5	+EPZ	07	19	25.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
5	+EPZ	0919		21.4	
5	+EPZ	0919		26.8	
5	+IPZ	0919		32.4	
5	−IPZ	1220		5.0	#-16
5	−EsPZ	1220		8.2	#-16
5	+EPKPdfZ	1248		35.4	#-17
5	−IXZ	1249		32.0	#-17
5	+IPZ	1751		28.0	
5	+EPZ	1926		18.0	
5	−EPZ	2213		18.0	
5	+EPZ	2213		31.8	
5	+EPZ	2348		41.8	
6	−EPZ	0017		17.8	
6	−EPZ	0336		17.8	
6	−EPZ	0410		32.6	
6	+EPZ	0538		20.0	
6	−EPZ	0538		22.2	
6	+EPZ	0754		25.6	
6	−EPZ	0952		42.8	
6	+EPZ	1037		7.8	#-18
6	+EPZ	1119		4.0	
6	+EPZ	1121		15.4	#-19
6	−IXZ	1159		13.2	#-20
6	+EPZ	1619		10.0	
6	+EPZ	1619		18.8	
6	+EPZ	1639		25.8	#-21
6	−EPcPZ	1639		28.0	#-21
6	+EPZ	1654		46.0	
6	−EPZ	1828		40.0	#-22
6	+EPcPZ	1828		50.8	#-22
6	+EPZ	1840		4.0	
6	+EPZ	1852		46.4	
6	+EPZ	1901		32.0	
6	−EPZ	1901		34.2	
7	+EPZ	0007		34.5	
7	−EPZ	0058		29.2	
7	−EPZ	0413		34.6	
7	+EPZ	0537		29.2	
7	+EPZ	0537		33.0	
7	+EXZ	0703		26.4	#-23
7	+EPZ	1705		39.0	
7	+EPZ	1705		42.3	
7	+IPZ	1707		45.6	
7	−EPZ	1838		13.0	
7	−EPZ	2039		26.4	
7	−EPZ	2039		30.6	
8	+IPZ	0016		34.8	
8	+EPZ	0022		52.0	
8	+EPZ	0432		14.0	
8	+EPZ	0518		10.4	
8	+EPZ	0744		30.4	
8	−EpPdiffZ	0807		44.6	#-24
8	−EsPdiffZ	0807		49.0	#-24
8	+EPZ	0828		25.8	
8	+EPZ	0828		29.0	
8	+EPZ	1109		10.3	
8	+EPZ	1109		21.2	
8	−EPZ	1138		38.4	#-25
8	−EPcPZ	1138		49.0	#-25
8	+EPZ	1149		5.2	
8	−EPZ	1149		7.6	
8	−EPZ	1149		41.0	
8	+EPZ	1417		30.0	
8	+EXZ	1430		42.0	#-26
8	−EPZ	1522		14.0	
8	+EPZ	1614		12.9	
8	−EpPZ	1912		34.0	#-27
8	−IsPZ	1912		37.0	#-27

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
8	+EPKPdfZ	1915		27.0	#-28
8	−EpPKPdfZ	1915		46.8	#-28
8	+EPZ	2028		12.0	
8	+EsPZ	2028		32.0	#-29
8	+EPZ	2127		44.5	
8	+IPZ	2138		23.0	#-30
8	−IXZ	2138		27.0	#-30
8	−IsPZ	2138		34.4	#-30
8	+EXZ	2343		15.0	#-31
8	−EPZ	2352		3.4	
8	+EPKiKPZ	2356		5.9	#-32
9	−EPZ	0523		11.7	
9	+EPZ	0539		40.2	
9	+EPZ	0539		46.0	
9	+EPZ	0633		6.0	#-33
9	+EsPZ	0633		13.6	#-33
9	+IPZ	0706		20.0	
9	+IPZ	0707		34.0	
9	−EPZ	0738		12.6	
9	−EPZ	0802		14.7	
9	+EPZ	0944		0.8	
9	+EPZ	1017		42.0	
9	−EPZ	1019		32.8	
9	+EPZ	1037		20.0	
9	+EPZ	1038		36.8	
9	−EPZ	1102		39.4	#-34
9	+EPZ	1132		43.0	#-35
9	+EPZ	1218		3.4	
9	+EPZ	1242		18.4	
9	+EPZ	1311		23.6	
9	+EPZ	1311		39.2	
9	+IPZ	1823		57.4	
9	+EPZ	1824		10.0	
9	+EPcPZ	1850		45.0	#-36
9	+EPZ	1907		12.4	
9	+EPZ	1928		3.6	
9	−EPZ	2117		0.4	#-37
9	+EsPZ	2117		10.0	#-37
9	+EPZ	2155		25.2	#-38
9	+EpPZ	2155		29.0	#-38
10	+EPZ	0104		11.0	
10	−EPZ	0104		15.4	
10	+EPZ	0307		21.6	
10	−EPZ	0307		24.6	
10	−EPZ	0611		32.8	
10	−EPZ	1359		24.4	#-39
10	−IPcPZ	1359		26.0	#-39
10	+EpPZ	1359		35.0	#-39
10	−IsPZ	1359		42.0	#-39
10	+EPZ	1514		19.6	
10	+EXZ	1639		27.5	#-40
10	−EPZ	1649		52.2	
10	+EPZ	1650		0.2	
10	+EPZ	1650		3.8	
10	+EPZ	1805		5.6	
10	+EPZ	1915		13.4	
10	+EPZ	1915		19.0	
10	−EPZ	1934		15.0	
10	+EPZ	1934		21.1	
10	−EPZ	2053		22.6	
10	+EPZ	2157		16.8	
10	−EPZ	2210		5.2	#-41
10	+EpPZ	2210		23.8	#-41
11	+IPZ	0056		25.0	
11	−EPZ	0145		24.2	
11	−EPZ	0319		25.0	
11	−EPZ	0358		20.0	
11	+EPZ	0722		46.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
11	+EPZ	0759	22.4	#-42
11	+EXZ	0759	41.0	#-42
11	+EsPZ	0923	31.0	#-43
11	+IPZ	0959	37.3	#-44
11	+EPcPZ	0959	39.8	#-44
11	+EPZ	1211	24.0	
11	−EPZ	1448	9.2	
11	+EPZ	1611	30.0	
11	+EPZ	1704	33.4	
11	−EPZ	1732	12.4	
11	+EPZ	1916	34.8	
12	+EPZ	0049	41.2	
12	+EPZ	0123	17.8	
12	+EPZ	0123	26.0	
12	−EPZ	0325	9.0	
12	+EPZ	0345	38.4	
12	−EPZ	0614	15.6	
12	−IPZ	0614	17.4	
12	+EPZ	0645	25.6	
12	−EPZ	0920	8.0	
12	+EPZ	1025	29.0	
12	+EPZ	1034	18.7	#-45
12	+EPZ	1123	29.0	
12	+EXZ	1356	42.6	#-46
12	+EPZ	1426	9.0	
12	+EPZ	1426	15.8	
12	−IPZ	1440	13.0	#-47
12	+IpPZ	1440	20.4	#-47
12	−EPZ	1516	20.4	
12	+EPZ	1516	26.9	
12	+EPZ	1718	39.6	
12	+EPZ	1746	23.9	
12	+IPcPZ	1746	26.0	
12	+EPZ	2202	18.0	#-48
13	−EPZ	0128	40.0	
13	+EPZ	0221	20.0	
13	+EPPZ	0339	5.0	#-49
13	+EpPZ	0601	22.0	#-50
13	+EPZ	0803	24.6	
13	+EPZ	0919	31.0	
13	−EPZ	0919	35.0	
13	+EXZ	1305	10.8	#-51
13	+EXZ	1305	42.6	#-51
13	+EPZ	1322	12.4	#-52
13	+EPZ	1425	12.2	
13	−EPZ	1641	13.2	
13	+EPZ	1721	6.5	
13	−EPZ	1806	35.0	#-53
13	−IPcPZ	1806	38.2	#-53
13	+EPZ	2119	28.0	
13	+IPZ	2135	15.6	#-54
13	+EXZ	2135	20.3	#-54
13	+EPZ	2319	16.7	
13	−EPZ	2319	26.8	
14	+EPZ	0106	18.2	
14	+EPZ	0106	19.9	
14	+EPZ	0218	19.6	
14	+EPZ	0303	6.4	
14	−EPZ	0303	31.0	
14	+EPZ	0418	30.4	
14	+EPZ	0522	2.4	
14	+EPZ	0549	2.3	
14	−EXZ	0549	13.3	#-55
14	+EPZ	0611	14.9	
14	+EPZ	0611	20.0	
14	+EPZ	0718	8.2	#-56
14	−EPcPZ	0718	12.0	#-56
14	+EpPZ	0718	15.0	#-56

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
14	+EPZ	0941	7.3	
14	+EPZ	1003	18.0	
14	+EPZ	1003	24.2	
14	−EPZ	1517	3.8	
14	−EPZ	1517	9.4	
14	+EPZ	1517	17.3	
14	+EPZ	1800	7.7	
14	+EPZ	1902	45.2	
14	+EPZ	2120	36.1	
14	+EPZ	2132	4.6	
14	+EPcPZ	2352	13.8	#-57
14	+EPZ	2352	26.9	
15	+EPZ	0114	20.0	
15	+EPZ	0210	19.0	
15	−EPZ	0310	3.4	
15	+EPZ	0359	53.1	
15	+EPZ	0421	19.2	
15	+EPZ	0421	25.0	
15	+EPZ	0513	36.0	
15	+EPZ	0625	10.0	
15	+EPZ	0625	16.2	
15	−EPZ	0806	29.6	
15	−EPZ	0742	17.6	
15	+EPZ	1117	40.0	
15	+EPcPZ	1220	23.4	#-58
15	+EpPZ	1220	27.0	#-58
15	−EPZ	1240	10.2	
15	−IpPZ	1618	15.2	#-59
15	+IPZ	1618	20.0	
15	+EPZ	1915	40.0	#-60
15	+IpPZ	1916	19.6	#-60
15	−IsPZ	1916	39.0	#-60
15	−EpPZ	2248	19.0	#-61
15	−EsPZ	2248	24.0	#-61
15	+EPZ	2341	39.1	
16	+EXZ	0020	2.0	#-62
16	+EPZ	0125	14.4	
16	+EPZ	0720	39.5	
16	+EPZ	1040	2.0	
16	+EPZ	1040	9.0	
16	−EPZ	1626	20.2	
16	+EPZ	2015	37.8	
16	−EPZ	2158	5.4	#-63
16	+EpPZ	2158	24.6	#-63
17	−EPZ	0421	24.0	
17	+EPZ	0432	3.0	
17	+EPZ	0512	15.0	
17	+EPZ	1316	27.0	
17	−EPZ	1316	40.8	
17	+EPZ	1542	8.6	
17	+EPZ	2026	52.0	
18	+EPZ	0018	13.0	
18	+EPZ	0204	0.0	
18	+EPZ	0317	6.0	
18	+EPZ	0515	53.0	
18	+EPZ	0520	14.4	
18	−EPZ	0520	25.4	
18	+EXZ	0528	43.0	#-64
18	−EPZ	0816	38.0	
18	−EPZ	1502	40.0	
18	−EPZ	1718	3.4	
18	−EPZ	1906	8.6	
18	−EPZ	1906	9.8	
18	+EPZ	2203	10.6	
19	−EPZ	0506	37.0	
19	−EPZ	0939	5.0	
19	−EPZ	1405	10.8	
19	+EPZ	1443	6.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
19	+EPZ	1619	8.0	
19	+EPZ	1619	11.2	
19	+EPZ	1923	30.8	
19	+EPZ	1923	35.6	
20	+EPZ	0017	29.2	
20	+EPZ	0056	32.4	#-65
20	−EPcPZ	0057	2.2	#-65
20	−EPZ	0623	16.0	
20	−EPZ	0623	26.4	
20	+EPZ	0636	11.2	
20	+EPZ	1108	18.0	
20	−EXZ	2142	41.6	#-66
20	+EPZ	2149	15.0	
21	+EPZ	0418	34.0	
21	+EPZ	1109	27.8	
21	−EpPKiKPZ	1152	24.8	#-67
21	−EPKPabZ	1152	37.6	#-67
21	−EPZ	1344	25.0	
21	+EpPZ	1845	23.0	#-68
21	+EsPZ	1845	25.0	#-68
21	−EPZ	2210	17.2	
21	+EPZ	2215	35.4	
21	+EPZ	2235	19.0	#-69
21	−IpPZ	2235	21.4	#-69
21	+EPZ	2300	34.3	#-70
21	−EPZ	2302	26.8	
21	+EPZ	2317	7.4	
22	−IPZ	0848	41.6	#-71
22	−IPZ	1351	10.0	
22	+IPZ	1351	18.6	
22	+EPZ	1610	27.4	
22	+EPZ	2213	44.6	
23	+IPZ	0258	33.0	#-72
23	+EsPZ	0258	45.2	#-72
23	+EPZ	0441	11.8	#-73
23	−IpPZ	0441	14.0	#-73
23	−EPZ	0514	13.2	
23	−EPZ	0706	36.3	
23	−EPZ	0749	3.4	
23	+EPZ	0749	6.0	
23	+EPZ	0835	43.6	#-74
23	−EpPZ	0835	54.4	#-74
23	+EPZ	1252	24.4	#-75
23	−EPZ	1615	6.9	
23	−EpPZ	1718	24.8	#-76
23	+EPZ	2018	24.5	
23	−EPPZ	2156	21.0	#-77
23	+EPZ	2250	35.0	
23	+EPZ	2250	44.9	
24	−EpPZ	0230	13.0	#-78
24	−EsPZ	0230	16.6	#-78
24	+EPZ	0407	19.2	
24	−EPZ	0607	20.1	
24	+EPZ	0615	21.0	
24	−EpPdiffZ	0751	23.5	#-79
24	+EPZ	0947	16.3	#-80
24	−EPcPZ	0947	18.0	#-80
24	−EPZ	1347	35.6	
24	+EPZ	2120	21.7	
25	+IPZ	0317	13.9	
25	+EPZ	0534	49.6	#-81
25	−EpPZ	0535	17.8	#-81
25	−EPZ	1225	33.6	
25	+EPZ	1425	0.5	
25	+EXZ	1503	18.8	#-82
25	−EPZ	2002	14.6	
25	+EPZ	2002	27.0	
25	+EpPZ	2004	52.3	#-83

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
25	−EPcPZ	2005	8.0	#-83
25	+EPZ	2021	22.4	
25	−EPZ	2322	16.0	
25	−EPZ	2322	19.0	
25	−EPZ	2345	18.9	#-84
26	+EPZ	0026	15.7	
26	+EPZ	0203	4.0	
26	+EPZ	0203	18.0	
26	−EPZ	0624	22.0	
26	−EPZ	0820	32.4	
26	+EPZ	1114	42.0	#-85
26	−EPPZ	1118	24.6	#-85
26	−EPZ	1215	33.6	
26	+EPZ	1240	11.1	
26	−EPZ	1240	17.7	
26	−EPZ	1522	26.2	
26	−EPZ	1653	26.0	
26	+EPZ	1744	19.6	#-86
26	+EXZ	1745	11.2	#-86
26	+EPZ	2000	45.0	
26	−IPZ	2001	11.0	
26	+EPZ	2138	2.2	
26	−EPZ	2218	4.6	
27	+EPZ	0039	12.4	#-87
27	+EXZ	0042	7.0	#-87
27	+EPZ	0101	14.2	
27	+EPZ	0213	20.6	
27	−EPcPZ	0417	36.3	#-88
27	−EpPZ	0417	41.2	#-88
27	+EPZ	0624	41.8	
27	+EPZ	0624	47.2	
27	−EPZ	0813	35.4	
27	−EPZ	1012	35.4	
27	−IPZ	1012	36.2	
27	−IPZ	1012	47.0	
27	+EPZ	1151	41.0	
27	+EPZ	1402	4.8	
27	+EPZ	1436	34.0	#-89
27	+IPKPdfZ	1900	44.6	#-90
27	−IpPKPdfZ	1901	5.0	#-90
27	+EsPKiKPZ	1901	16.0	#-90
27	+EPZ	1944	14.3	#-91
27	−IpPZ	1944	17.4	#-91
27	−IPcPZ	1944	29.0	#-91
27	+EXZ	2117	5.0	#-92
28	+EPZ	0001	30.0	
28	−EXZ	0415	16.4	#-93
28	−EPZ	0608	4.0	
28	+EPZ	0723	4.6	
28	+EPZ	0810	2.8	
28	+EPZ	0908	33.7	
28	+EPZ	0908	56.8	
28	+EPZ	0909	4.6	
28	−EPZ	1212	2.2	
28	−EPZ	1213	19.4	#-94
28	−EPcPZ	1213	24.2	#-94
28	−EPZ	1604	26.9	
28	+EPZ	1648	38.5	
28	+IPKPdfZ	1657	34.5	#-95
28	+IpPKPdfZ	1657	38.0	#-95
28	+EPZ	1708	6.2	
28	−EPZ	1708	14.8	
28	+EPZ	1945	27.0	#-96
28	+EPcPZ	1945	32.6	#-96
28	−EPZ	1947	19.0	
28	+EPZ	2027	43.0	
28	+EPZ	2028	8.4	
28	+EPZ	2136	6.2	#-97

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
28	+EPcPZ	21	36	8.7	#-97
28	+EPZ	22	17	8.4	
28	+EPZ	23	16	6.9	
29	+EPZ	01	20	50.2	
29	+EPZ	02	25	25.0	
29	+EPZ	02	25	39.4	
29	+EPZ	03	29	9.0	#-98
29	+EPcPZ	03	29	12.8	#-98
29	+EPZ	05	13	8.4	
29	−EPZ	05	13	12.0	
29	+EPZ	07	14	1.6	
29	+EPZ	07	14	10.0	
29	−EPZ	07	14	17.0	
29	+EPZ	09	15	4.8	
29	+EPZ	09	15	8.7	
29	−EPZ	13	18	3.0	
29	−EPZ	13	18	7.2	
29	+EPZ	14	11	51.0	#-99
29	+EPZ	19	22	31.9	
29	−EPZ	19	22	39.8	
29	−EXZ	19	43	43.6	#-100
30	+EPZ	02	45	15.0	
30	−IPdiffZ	02	45	54.9	#-101
30	−EPKPbcZ	03	34	25.6	#-102
30	−EPKPabZ	03	34	39.0	#-102
30	−EPZ	09	41	6.0	
30	−EXZ	09	41	34.0	#-103
30	−IPZ	13	11	10.5	
30	+EPZ	13	31	8.0	#-104
30	−IpPZ	13	31	12.2	#-104
30	+IPZ	13	31	14.0	#-104
30	+EPZ	18	11	28.6	
30	+EPZ	20	13	30.4	#-105
30	+EPZ	20	26	53.0	
30	−IPZ	20	26	57.4	
30	−IXZ	23	16	50.4	#-106
30	−EPcPZ	23	16	53.9	#-106
31	+IPZ	00	07	3.6	#-107
31	+EPcPZ	00	07	5.0	#-107
31	−EpPZ	00	07	7.5	#-107
31	+EXZ	02	42	42.0	#-108
31	+EXZ	02	56	28.8	#-109
31	−EXZ	04	11	3.2	#-110
31	+EPZ	04	22	31.2	#-111
31	+EsPZ	04	27	21.6	#-112
31	+EXZ	04	44	43.7	#-113
31	−EpPZ	05	22	14.6	#-114
31	+EsPZ	05	22	18.6	#-114
31	+EPZ	05	30	6.9	#-115
31	+EpPZ	05	30	11.0	#-115
31	+EPZ	05	31	20.0	#-116
31	−EpPZ	05	31	22.8	#-116
31	−EPcPZ	06	55	18.0	#-117
Feb.1	+EPZ	01	20	9.4	
1	+EPZ	03	21	40.0	
1	+EPZ	03	57	13.0	
1	+EPZ	05	49	25.2	
1	+EPZ	07	53	4.8	
1	−EPZ	10	51	17.4	#-118
1	−EXZ	10	52	38.4	#-118
1	−EPZ	12	22	7.2	
1	+EPZ	15	21	21.0	
1	+EPZ	17	21	0.0	#-119
1	+EPcPZ	17	21	2.6	#-119
1	+EXZ	17	32	30.5	#-120
1	+EPcPZ	17	32	47.0	#-120
1	+EPZ	18	17	34.0	
1	+EPZ	20	20	48.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
1	+EXZ	22	29	38.0	#-121
1	ESH	22	40	15.4	#-121
1	−IPZ	22	31	39.8	#-122
1	+IsPZ	22	31	45.4	#-122
1	+EXZ	22	39	34.6	#-123
1	−EXZ	22	39	45.1	#-123
1	+EPZ	22	42	23.0	
2	+IPZ	01	28	53.0	#-124
2	−EpPZ	01	29	3.2	#-124
2	+EPZ	01	31	12.6	#-125
2	−EXZ	01	31	23.0	#-125
2	+EXZ	03	52	52.3	#-126
2	+EXZ	03	58	49.2	#-127
2	−EXZ	04	29	19.0	#-128
2	−IpPZ	04	29	31.0	#-128
2	−EPZ	07	33	34.0	#-129
2	+EPZ	12	05	26.0	
2	+EPZ	12	05	41.0	#-130
2	−EPZ	14	35	13.0	
2	−EPZ	14	36	12.0	
2	−EPZ	16	10	20.0	
2	+EPZ	17	19	47.5	
2	−EPZ	19	07	35.0	#-131
2	−EPcPZ	19	07	36.4	#-131
2	+EPZ	19	37	19.6	
2	−EPZ	19	37	35.4	#-132
2	+EXZ	19	37	43.6	#-132
2	+EsPZ	20	27	18.2	#-133
2	+IPZ	21	08	10.0	#-134
2	−IPZ	21	33	41.0	#-135
2	+EsPZ	21	33	46.0	#-135
2	+EPcPZ	22	45	5.4	#-136
2	−EsPZ	22	49	17.0	#-137
3	+EPZ	00	11	2.4	
3	−IPZ	02	27	25.4	
3	−EPZ	02	38	22.0	
3	+EPZ	02	42	31.4	
3	−IPcPZ	03	20	2.4	#-138
3	+IPZ	03	32	0.4	#-139
3	−IXZ	03	32	8.4	#-139
3	+EpPZ	04	10	44.6	#-140
3	+EXZ	05	32	33.0	#-141
3	+IPZ	06	00	23.0	
3	+EpPZ	10	25	41.0	#-142
3	−EXZ	10	35	42.0	#-143
3	+IPZ	11	28	8.6	#-144
3	−IpPZ	11	28	17.8	#-144
3	−EPZ	11	49	53.0	#-145
3	+EpPZ	11	49	57.4	#-145
3	+EPZ	14	25	32.8	
3	+EPZ	16	03	19.7	
3	+EPZ	16	03	27.2	
3	−EPZ	17	22	53.0	
3	+EPZ	21	05	30.8	#-146
3	−IPKiKPZ	23	15	2.2	#-147
3	+EXZ	23	15	10.0	#-147
3	−EPZ	23	22	17.0	
3	−EPKPdfZ	23	23	5.0	#-148
4	−EPZ	00	46	28.0	
4	+IPZ	01	32	49.6	#-149
4	+EXZ	04	02	25.0	
4	+EPZ	05	11	16.2	
4	+EPZ	06	13	2.8	
4	−EPZ	06	13	8.6	
4	+EXZ	09	46	29.4	
4	+EPZ	09	51	27.0	
4	+EPZ	09	51	30.4	
4	−EPZ	09	54	9.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
4	+EPZ	1157		1.8	#-150
4	−IsPZ	1157		7.0	#-150
4	−EPZ	1418		9.8	
4	+EPcPZ	1446		11.8	#-151
4	+EPZ	1603		9.0	
4	+EPZ	1840		22.3	
5	+EPZ	0120		2.0	
5	+EPZ	0220		5.2	
5	+EPKPdfZ	0344		12.0	#-152
5	+EpPKPdfZ	0344		29.4	#-152
5	+EPZ	0411		3.6	
5	+EPZ	0411		14.8	
5	+EPZ	0452		6.8	
5	−IPZ	0553		44.0	
5	−IPZ	0553		50.0	
5	−IPZ	0601		15.6	
5	+EPZ	0618		15.4	
5	−EPZ	1416		22.2	
5	+EXZ	1546		21.0	#-153
5	+EPZ	1546		39.4	
5	−EPZ	1712		24.6	
5	−IPZ	1742		23.0	#-154
5	+EPZ	1742		26.4	
5	−EPZ	1917		16.6	#-155
5	+IpPZ	1917		24.0	#-155
5	+EPZ	1952		40.6	#-156
5	−EPcPZ	1952		42.0	#-156
5	+EPZ	2019		43.0	
5	−EPZ	2019		47.2	
5	+IPZ	2026		19.0	#-157
5	−EXZ	2026		31.0	#-157
5	+EpPZ	2027		10.0	#-157
5	−EPZ	2209		44.2	
6	−EPZ	0020		29.4	#-158
6	−EpPZ	0020		34.2	#-158
6	−IsPZ	0020		36.6	#-158
6	+IPZ	0125		29.0	
6	−IPZ	0125		34.8	
6	−IPZ	0135		18.6	#-159
6	+IPcPZ	0135		20.5	#-159
6	ESH	0147		26.8	#-159
6	+IPZ	0146		44.4	#-160
6	−EXZ	0150		18.0	#-160
6	+EXZ	0206		33.0	#-161
6	−EPZ	0219		28.0	#-162
6	−IsPZ	0219		31.2	#-162
6	+EPZ	0221		7.4	
6	−EPZ	0231		14.4	#-163
6	+EPcPZ	0236		18.8	#-164
6	−IPZ	0243		50.0	#-165
6	+EpPZ	0257		30.0	#-166
6	+EPZ	0310		47.0	#-167
6	+EpPZ	0310		50.0	#-167
6	+EsPZ	0310		54.4	#-167
6	−IXZ	0314		3.3	#-168
6	+EXZ	0319		45.9	#-169
6	+EPZ	0324		57.2	#-170
6	−IsPZ	0325		3.3	#-170
6	+IPZ	0325		12.4	
6	−IPZ	0332		10.4	#-171
6	+EpPZ	0332		13.4	#-171
6	−IPcPZ	0342		0.2	#-172
6	+EXZ	0342		11.8	#-172
6	+EXZ	0352		13.6	#-173
6	+EPZ	0358		12.2	#-174
6	+EXZ	0358		23.0	#-174
6	+EPZ	0402		51.8	#-175
6	−EXZ	0433		50.2	#-176

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
6	+EPZ	0448		4.9	
6	+EPZ	0509		47.3	
6	+EPZ	0514		54.0	#-177
6	+EPZ	0517		10.2	#-178
6	+EPZ	0527		23.8	
6	+EpPZ	0543		28.2	#-179
6	+IPZ	0615		43.0	#-180
6	−EPZ	0622		42.0	#-181
6	+IPZ	0648		25.0	
6	+EPZ	0648		31.0	
6	+EPZ	0706		26.0	#-182
6	+IPcPZ	0706		29.0	#-182
6	+IXZ	0726		54.0	#-183
6	−IPcPZ	0726		57.4	#-183
6	−EPZ	0736		19.0	#-184
6	+EPZ	0817		39.4	#-185
6	−EpPZ	0817		49.8	#-185
6	−IPZ	0841		19.0	
6	+EPZ	0937		7.2	#-186
6	+EXZ	1025		33.0	#-187
6	−EPZ	1033		40.0	#-188
6	+EPZ	1046		24.0	#-189
6	+EPZ	1046		39.0	
6	−IPZ	1116		53.0	#-190
6	−EpPZ	1116		57.0	
6	+EPZ	1143		20.0	
6	+EPZ	1143		28.4	
6	+EPZ	1206		56.0	
6	+IPZ	1207		0.6	#-191
6	+IXZ	1207		13.4	
6	+EPZ	1245		14.3	#-192
6	+EXZ	1245		22.0	
6	+EPZ	1257		32.1	#-193
6	−EpPZ	1257		38.4	
6	−EPZ	1309		6.0	
6	+IPZ	1313		25.4	
6	+EPZ	1350		12.6	#-194
6	−EXZ	1403		38.0	#-195
6	+EPPZ	1407		23.0	#-195
6	−EPZ	1408		2.2	#-196
6	+EpPZ	1408		8.8	#-196
6	+EXZ	1416		52.0	#-197
6	+EXZ	1434		18.4	#-198
6	−EPZ	1438		2.2	
6	+EPZ	1606		29.4	
6	+EsPZ	1607		30.0	#-199
6	+EsPZ	1649		5.4	#-200
6	+EPZ	1653		28.0	
6	+EPZ	1732		14.3	
6	+EPZ	1732		34.6	#-201
6	−IPZ	1830		38.0	#-202
6	−EpPdiffZ	2034		19.0	#-203
6	+EPKPdfZ	2037		40.4	#-203
6	−EPZ	2054		47.8	#-204
6	+EPZ	2119		6.9	
6	−EPcPZ	2150		44.0	#-205
6	+IPZ	2220		40.2	#-206
6	−EPZ	2224		18.4	#-207
6	−IpPZ	2224		21.0	#-207
6	+EXZ	2233		22.6	#-208
6	−IXZ	2337		9.0	#-209
6	+EPZ	2352		42.0	
7	−EXZ	0002		34.2	#-210
7	+EPZ	0029		33.0	#-211
7	−EPZ	0036		3.0	
7	−EPZ	0036		18.4	
7	+EPZ	0053		35.6	#-212
7	+EPcPZ	0053		41.6	#-212

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
7	+EPZ	0109	48.6	#-213
7	−EPZ	0225	15.0	
7	−EPcPZ	0230	32.0	#-214
7	+IPZ	0309	35.0	#-215
7	+EPZ	0333	3.4	
7	+IPZ	0405	55.4	#-216
7	+IsPZ	0406	12.0	#-216
7	+EPZ	0534	27.8	
7	+IPZ	0724	26.0	#-217
7	+EPcPZ	0724	29.0	#-217
7	−IPZ	0733	0.2	#-218
7	−IsPZ	0733	6.2	#-218
7	−EPZ	0746	2.0	#-219
7	−EPZ	0815	34.2	#-220
7	+EPZ	0816	45.4	
7	−EPZ	1003	12.4	#-221
7	−EPcPZ	1003	15.6	#-221
7	+EPZ	1036	33.4	#-222
7	+EPZ	1143	10.0	
7	+IXZ	1250	10.1	#-223
7	+EXZ	1336	19.0	#-224
7	+EsPZ	1419	9.2	#-225
7	−EPZ	1519	36.2	
7	+EPZ	1609	12.0	
7	−EPZ	1709	11.0	
7	+IPZ	1812	32.0	
7	+EPZ	1912	22.6	
7	+EPZ	1912	28.5	
7	−IPZ	1912	44.0	
7	+EPZ	1956	42.0	
7	+EPZ	1956	48.4	
7	−EPZ	2001	25.4	#-226
7	+IPZ	2033	15.5	#-227
7	−EsPZ	2033	22.6	#-227
7	+EPZ	2054	50.9	
7	−EpPZ	2058	29.2	#-228
7	+EPZ	2104	39.6	
7	−EPZ	2151	13.8	#-229
7	−EPcPZ	2151	15.8	#-229
7	+EPcPZ	2154	2.6	#-230
7	+EPZ	2319	56.6	
8	−EPcPZ	0026	3.0	#-231
8	+EPZ	0026	18.0	
8	+EPZ	0026	28.0	
8	−EPZ	0043	55.0	
8	+EPcPZ	0439	26.4	#-232
8	−EPZ	0540	10.0	
8	+EPZ	0540	14.0	
8	+EPZ	0540	24.8	
8	−EPZ	0617	42.6	
8	+IPZ	0717	17.4	#-233
8	−IPcPZ	0717	19.4	#-233
8	+IPZ	0920	50.0	
8	+EPZ	1125	18.0	
8	+IPZ	1125	29.2	
8	−EpPZ	1152	53.0	#-234
8	−EPKiKPZ	1214	8.6	#-235
8	+EPZ	1214	31.7	
8	−EXZ	1216	45.0	#-236
8	+IpPZ	1216	49.4	
8	−EPZ	1222	28.3	#-237
8	+EPZ	1246	3.3	
8	+EPZ	1406	52.4	
8	+EPZ	1423	46.4	#-238
8	−EPZ	1427	16.6	#-239
8	+EPZ	1513	18.0	#-240
8	+EsPZ	1513	25.5	#-240
8	+EPZ	1539	44.4	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
8	+IPZ	15	39	55.0	
8	+EPZ	15	56	46.0	
8	+EpPZ	15	59	24.0	#-241
8	+EPcPZ	16	09	16.2	#-242
8	+EPZ	17	56	34.2	
8	−IPZ	18	01	37.2	
8	−EPZ	18	12	55.0	#-243
8	−EPcPZ	18	12	57.0	#-243
8	−EPZ	18	23	26.0	
8	−EpPZ	18	23	56.0	#-244
8	+EPZ	19	21	24.2	
8	−EPZ	19	22	16.6	#-245
8	+EPZ	20	18	35.0	
8	−EXZ	20	18	50.0	#-246
8	−EPZ	22	38	33.2	#-247
8	−EPcPZ	22	38	37.8	
8	+EPZ	22	42	43.4	#-248
8	+IPZ	23	28	42.2	#-249
8	+EPZ	23	29	35.2	#-250
9	+EPZ	02	27	57.2	#-251
9	+EPcPZ	03	00	36.4	#-252
9	−IXZ	03	02	35.1	#-253
9	+EXZ	04	58	51.0	#-254
9	−EPZ	06	16	13.0	
9	+IPZ	06	16	20.0	
9	+IpPZ	08	17	15.0	#-255
9	+EPZ	10	28	38.2	
9	−EPPZ	12	45	42.0	#-256
9	+EPZ	12	45	55.0	
9	−IPZ	14	29	39.6	
9	+IPZ	14	29	42.0	
9	−EXZ	17	40	25.0	#-257
9	−EPZ	21	15	23.5	
9	−IPZ	21	15	27.6	
9	−IPZ	21	15	30.0	
9	−EPZ	22	27	37.6	#-258
9	−EpPZ	23	02	23.2	#-259
9	−EPZ	23	22	25.6	
10	+EPZ	00	51	19.8	#-260
10	−EPcPZ	00	51	21.5	#-260
10	+EXZ	05	41	34.4	#-261
10	+EPZ	07	03	46.8	#-262
10	−EPZ	07	12	3.0	#-263
10	+EPZ	07	19	44.2	#-264
10	+EXZ	07	19	50.4	#-264
10	+EPZ	09	49	52.0	#-265
10	+IPcPZ	09	49	53.6	#-265
10	−EPZ	14	55	16.2	#-266
10	+EpPZ	14	55	19.0	#-266
10	+EPZ	18	52	38.6	
10	+IXZ	20	05	15.4	#-267
10	+EXZ	20	05	20.2	#-267
10	+IpPZ	20	11	29.8	#-268
10	+IsPZ	20	11	35.3	#-268
10	+EPZ	23	34	28.0	
10	+EPZ	23	38	15.0	#-269
11	−EsPZ	09	53	45.0	#-270
12	NIL				
13	−EPZ	05	33	26.4	
13	+IPZ	05	34	1.0	
13	+EPZ	11	12	23.4	
13	+IPZ	19	41	36.4	
13	+EPZ	19	41	42.6	
14	−EXZ	03	13	29.0	#-271
14	+EPZ	13	33	22.2	
14	−EPZ	13	33	29.4	
14	+IPZ	13	33	44.4	
14	−EpPKPdfZ	15	28	28.0	#-272

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
14	+EPKiKPZ	1528		33.6	#-272
14	+EsPZ	1705		20.4	#-273
14	+EPZ	1909		26.0	#-274
14	−EPcPZ	1909		31.8	#-274
14	+EpPZ	1909		34.8	#-274
14	+EPZ	2320		9.8	
14	+EPZ	2320		13.6	
15	+EPZ	0315		4.0	#-275
15	+EpPZ	0315		25.4	#-275
16	+IPZ	0450		41.2	#-276
16	−IPcPZ	0450		42.4	#-276
16	−EPZ	1538		21.2	
16	−IPZ	1742		30.4	
17	+EpPdiffZ	0556		32.2	#-277
17	+EXZ	0556		41.7	#-277
17	+EPZ	0917		28.4	
17	+EPZ	0917		29.6	
17	+EXZ	1527		25.0	#-278
17	−EPZ	1713		49.8	
17	−EPZ	1743		36.4	#-279
17	−EPcPZ	1743		39.8	#-279
17	+EPKiKPZ	1845		19.6	#-280
17	+EXZ	1845		30.2	#-280
17	+EPZ	1932		1.0	#-281
17	+EPZ	1936		52.8	#-282
18	+EPZ	0312		24.0	
18	−EPZ	0353		43.2	#-283
18	−IpPZ	0353		46.0	#-283
18	+EPZ	0505		8.8	#-284
18	+EPZ	0840		36.5	
18	+EPZ	1010		51.1	#-285
18	+EpPZ	1010		59.3	#-285
18	+EsPZ	1011		2.2	#-285
18	−EPZ	1036		30.7	
18	+EPZ	1103		47.0	#-286
18	+EPcPZ	1103		50.6	#-286
18	−IPZ	1231		5.0	
18	−IPZ	1231		30.4	
18	+IPZ	1232		9.4	
18	+EPZ	1516		5.0	
18	+EPZ	1552		8.0	
18	+EPZ	1552		13.0	
18	−IPZ	1644		32.4	#-287
18	−IppZ	1644		54.2	#-287
18	+EPZ	1711		31.0	
18	−EPZ	1711		34.0	
18	+IPZ	1812		25.0	
18	−EPZ	1812		42.0	
18	+IPZ	1923		17.4	
19	+EPZ	0108		2.2	
19	−EPZ	0136		2.0	
19	−EPZ	0722		4.0	
19	+EPZ	0722		33.5	
19	+EPZ	0813		52.4	#-288
19	+EPZ	1007		15.0	
19	+EpPZ	1120		16.2	#-289
19	+IPcPZ	1120		19.0	#-289
19	−EsPZ	1120		22.2	#-289
19	+EPZ	1205		18.2	#-290
19	+EXZ	1205		29.4	#-290
19	+EPZ	1246		29.6	
19	+IPZ	1246		36.0	
19	−EPZ	1447		16.8	
19	+IPZ	1548		6.0	
19	−EPZ	1908		30.0	#-291
19	+IPZ	2228		14.4	#-292
19	−IPZ	2241		57.0	#-293
19	+EsPZ	2242		9.2	#-293

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
20	+EXZ	0022	24.4	#-294
20	+EPZ	0223	27.0	
20	+IPZ	0701	47.0	
20	+EXZ	0907	22.0	#-295
20	+EPZ	1009	35.0	#-296
20	+EpPZ	1009	38.6	#-296
20	+EPZ	1010	22.0	
20	+EPZ	1129	45.6	#-297
20	+EPcPZ	1130	6.2	#-297
20	+EXZ	1130	42.0	#-297
21	+EPZ	0627	11.0	
21	−EPZ	1009	50.0	#-298
21	+EPPZ	1426	23.4	#-299
21	+EsPZ	1807	20.0	#-300
21	−EPZ	2003	8.6	#-301
21	+IPcPZ	2003	11.0	#-301
21	+EPZ	2211	19.2	
22	−EPZ	0302	28.4	
22	−EPZ	0312	20.8	
22	−EPZ	1116	31.0	
22	+EPZ	1527	4.6	#-302
22	−EPcPZ	1527	8.7	#-302
22	+EsPZ	1631	14.8	#-303
22	+EpPZ	1634	32.5	#-304
22	+IXZ	1832	38.0	#-305
22	−EsPZ	1832	54.8	#-305
22	−EPZ	2027	47.6	
22	+EPZ	2114	9.0	#-306
22	−EpPZ	2114	12.4	#-306
22	−EPZ	2203	8.8	#-307
22	+IPcPZ	2203	14.4	#-307
22	+EPZ	2231	2.4	#-308
22	+EPZ	2235	10.5	#-309
22	+EPcPZ	2235	14.0	#-309
22	+EsPZ	2235	19.8	#-309
23	+EPZ	0106	19.4	
23	+EPZ	0706	41.8	
23	+EPZ	0706	46.0	
23	+EPZ	0709	53.6	#-310
23	+EsPZ	0710	0.2	#-310
23	+EPZ	0912	15.6	
23	−IPZ	0912	17.0	
23	+EPZ	1121	34.8	#-311
23	−IPcPZ	1121	38.0	#-311
23	+IpPZ	1121	46.0	#-311
23	−EPZ	1149	2.0	
23	+EPZ	1444	5.8	#-312
23	+EPcPZ	1444	7.2	#-312
23	+IXZ	1724	25.0	#-313
23	−IXZ	1724	35.0	#-313
23	+EPZ	2110	40.0	#-314
23	+EPcPZ	2110	44.2	#-314
24	+EPZ	0248	9.2	
24	−EPZ	0312	0.6	
24	−IPZ	0928	40.6	
24	+EPZ	1207	40.4	
24	+EPZ	1314	11.0	#-315
24	+EpPZ	1314	14.7	#-315
24	+EPZ	1416	38.0	
24	+EPZ	1503	27.6	#-316
24	+EPcPZ	1503	30.4	#-316
24	+EPZ	1711	29.7	
25	−IpPZ	1527	45.0	#-317
25	+EsPZ	1527	49.0	#-317
25	+EPZ	1615	5.4	
25	+EPdiffZ	1615	19.6	#-318
25	−EPZ	1625	16.0	#-319
25	−EXZ	1625	27.0	#-319

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
25	−EPZ	1700	38.4	
25	−EPZ	1701	18.3	#-320
25	+EPZ	1919	14.4	
25	+EPZ	1919	16.2	
25	+EPZ	2347	40.8	#-321
26	+EPZ	0018	9.0	
26	+EPZ	0018	14.2	
26	+EPZ	0018	38.6	
26	−EPZ	0326	2.0	#-322
26	+EPZ	0710	22.2	
26	+EPZ	0816	12.2	
26	+EPZ	0948	40.0	
26	+IPZ	1049	14.4	
26	−EPZ	1125	37.5	
26	+EPZ	1417	32.6	#-323
26	−EPcPZ	1417	45.2	#-323
26	+IPZ	1610	7.8	#-324
26	−EpPZ	1610	17.2	#-324
26	−EPZ	1720	44.0	
26	+EXZ	1722	38.6	#-325
26	−IPZ	2009	27.6	
26	−IPZ	2009	32.6	
26	ESH	2019	8.2	
26	+EPKPdfZ	2203	14.2	#-326
26	−EPKPbcZ	2203	17.5	#-326
26	−EXZ	2203	25.2	#-326
26	−EpPKPdfZ	2203	48.0	#-326
27	+EPZ	0340	26.4	
27	−EPZ	0438	57.2	#-327
27	+EpPZ	0439	4.0	#-327
27	+EXZ	0439	13.7	#-327
27	+EPZ	0701	41.5	#-328
27	+EPcPZ	0701	53.6	#-328
27	+EXZ	1007	30.5	#-329
27	+EPZ	1113	11.2	
27	+EPZ	1213	23.0	
27	+EPZ	2008	4.4	
27	+EPZ	2008	9.8	
28	+IPZ	0322	12.0	
28	−IPZ	0322	19.0	#-330
28	−IPcPZ	0322	23.8	#-330
Mar.1	+EPZ	0040	55.0	#-331
1	−EPZ	0350	35.2	
1	−IPZ	1010	48.0	
1	+EPZ	1026	10.8	
1	−IPZ	1313	24.0	
1	−IPZ	1313	24.8	
1	+IPZ	1341	21.0	
2	+EPZ	0024	18.4	#-332
2	+EpPZ	0024	40.2	#-332
2	−EPZ	0131	32.8	#-333
2	+EPZ	0145	21.3	
2	+EPZ	0144	45.6	#-334
2	+EXZ	0148	35.0	#-334
2	−IPZ	0209	15.4	
2	+EXZ	0430	50.4	#-335
2	−EPZ	0508	20.7	
2	+EPZ	0805	29.4	
2	−EPZ	1150	42.4	
2	−EPZ	1153	42.2	#-336
2	−EPZ	1240	31.0	
2	+EPcPZ	1308	7.2	#-337
2	−EPZ	1511	29.6	
2	+EPZ	1556	5.6	
2	−EXZ	1738	34.6	#-338
2	−EpPZ	1738	42.4	#-338
2	−EPZ	1919	24.0	
2	−EPZ	2200	29.2	#-339

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
2	−EPZ	2346		15.0	
3	−EXZ	0240		13.0	#-340
3	+EpPZ	0240		34.2	#-340
3	+EPZ	0326		18.0	
3	−IPZ	0337		52.8	#-341
3	−IPcPZ	0337		54.4	#-341
3	+EpPZ	0338		40.6	#-341
3	−EPZ	0555		41.0	
3	−EPZ	0714		6.4	
3	+EPZ	0714		23.0	
3	+EPZ	1610		20.2	
3	+EPZ	1753		37.4	
3	+EPZ	1824		26.0	
3	+EPZ	2024		5.0	
3	+EPZ	2140		14.2	
3	+EpPZ	2236		30.0	#-342
4	−EPZ	0946		13.8	
4	+IPZ	1046		14.5	
4	−EPZ	1324		13.0	
4	−EPZ	1504		17.6	
4	+EPZ	1617		36.0	
4	−EPcPZ	1622		11.2	#-343
4	+EXZ	1625		15.4	#-344
4	−EsPZ	1628		43.4	#-344
4	+EPZ	1646		19.0	
4	−EPZ	1712		20.0	#-345
4	−EPZ	1730		43.4	#-346
4	+EPZ	1736		1.6	#-347
4	−EsPZ	1736		15.2	#-347
4	+EPZ	1747		43.0	
4	+EPZ	1753		14.0	
4	−EPZ	1920		37.0	
4	+EPZ	2018		6.0	
4	−EPZ	2018		10.4	
4	+EXZ	2116		4.8	#-348
4	+IXZ	2116		8.6	#-348
4	−IPKiKPZ	2116		14.6	#-348
4	−EPZ	2149		6.4	
4	+EPZ	2149		12.2	
4	+EPZ	2149		26.0	
5	+EPZ	0006		8.6	
5	−EPZ	0006		24.0	
5	−EPZ	0220		22.0	
5	−EPZ	0220		32.7	
5	+EPZ	0339		16.0	
5	−IPZ	0410		12.8	
5	+EPcPZ	0619		48.0	#-349
5	+EsPZ	0634		28.0	#-350
5	−EpPKPdfZ	0853		47.6	#-351
5	+EPZ	1019		11.9	
5	+EPZ	1152		50.2	#-352
5	+IPcPZ	1152		53.6	#-352
5	+EPZ	1904		24.5	
5	+EPZ	2045		29.0	
5	+IXZ	2047		36.0	#-353
5	−EPZ	2102		39.0	
6	+EPZ	0202		51.0	#-354
6	+EpPZ	0203		3.6	#-354
6	−IPZ	0408		25.2	#-355
6	+EPZ	0545		9.4	
6	+IPcPZ	0600		7.4	#-356
6	−EPZ	0712		20.6	#-357
6	−IXZ	0712		29.0	#-357
6	−EXZ	0736		15.0	#-358
6	+EPZ	0736		20.4	#-358
6	+EPZ	0824		49.2	#-359
6	+EpPZ	0903		18.4	#-360
6	−EXZ	0928		40.8	#-361

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
6	+EPZ	0952	41.6	
6	+IPZ	1006	9.0	#-362
6	+EPZ	1036	24.6	#-363
6	+IsPZ	1036	27.0	
6	−EPZ	1154	15.9	
6	−EPZ	1230	2.9	#-364
6	−IPZ	1230	5.0	
6	−EXZ	1230	29.0	
6	−EPZ	1233	42.8	#-365
6	+EPZ	1521	38.6	
6	−EPZ	1625	28.0	
6	+EpPdiffZ	1703	47.0	#-366
6	+EPZ	2114	23.2	#-367
6	+EPcPZ	2114	35.0	
6	+EsPZ	2151	34.2	#-368
6	−EPZ	2208	53.2	#-369
7	+EPZ	0050	16.0	
7	+EXZ	0351	24.7	#-370
7	−EPZ	0409	32.3	
7	+EPZ	0409	35.6	
7	+EPZ	0645	18.4	
7	+EPZ	0810	19.8	
7	−EPZ	2019	18.4	
7	+IPZ	2019	27.4	
7	−EPZ	2108	0.6	#-371
7	+EPZ	2212	49.6	
8	+EPZ	0111	40.0	
8	+EPZ	0416	18.8	
8	+EPZ	0453	9.4	#-372
8	+EPZ	0507	45.4	#-373
8	+EPZ	0612	37.6	
8	+EPZ	1303	7.0	
8	−EPZ	1825	12.8	
8	+IPZ	2056	3.8	
8	+EPZ	2056	7.4	#-374
9	+EPZ	0210	25.6	#-375
9	−EPZ	0559	5.8	#-376
9	+EPcPZ	0559	14.0	#-376
9	+EPZ	0613	17.0	
9	−EPZ	0723	2.6	
9	−EPZ	0919	1.4	
9	+EPZ	1515	22.2	
9	+IPZ	1515	36.0	
9	−EPZ	1707	29.6	
9	−EPnZ	1900	47.0	#-377
9	−EpPZ	1900	53.2	#-377
9	+EPdiffZ	2027	40.0	#-378
9	−EPZ	2214	31.6	
10	−EPZ	0000	50.4	
10	−EPZ	0118	13.4	
10	+EPZ	0210	13.4	
10	+EPZ	0210	17.0	
10	−EXZ	0554	46.4	#-379
10	−EPZ	0910	40.6	
10	−EPZ	1055	11.2	
10	+EXZ	1126	51.4	#-380
10	+EPZ	1208	36.4	
10	+EPZ	1606	19.4	
10	+EPZ	1702	24.2	#-381
10	−IPcPZ	1702	26.0	#-381
10	+IPKPabZ	1732	21.2	#-382
10	−IXZ	1734	41.2	#-382
10	+IPZ	1902	39.2	
10	+IPZ	2224	3.0	#-383
10	−IPZ	2305	0.2	
11	+EPZ	0011	5.0	#-384
11	+EXZ	0011	37.4	#-384
11	+IPZ	0018	41.0	#-385

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
11	−IPcPZ	0018	44.0	#-385
11	+EPcPZ	0209	15.4	
11	+EPZ	0228	45.4	#-386
11	+IPZ	0233	12.0	#-387
11	+IPZ	0242	7.0	
11	−IPZ	0243	34.8	
11	−EpPdiffZ	0316	24.4	#-388
11	−EPZ	0315	21.4	#-389
11	−EPcPZ	0315	24.2	#-389
11	+EPZ	0508	12.2	
11	+EXZ	0633	34.2	#-390
11	+EXZ	0633	36.8	#-390
11	−EPZ	0835	17.0	#-391
11	+EPZ	0838	22.0	
11	−EPZ	0919	12.4	
11	+EsPdiffZ	0950	22.0	#-392
11	−EPZ	1115	12.3	
11	+EPZ	1252	20.2	
11	−EPZ	1257	40.0	#-393
11	−EPnPnZ	1258	16.2	#-393
11	+EPZ	1342	56.6	#-394
11	+EPZ	1343	29.8	
11	−EPZ	1412	13.0	
11	−EPZ	1434	28.5	#-395
11	−EXZ	1434	36.6	#-395
11	+EPZ	1725	16.0	
11	+EPZ	1825	16.2	#-396
11	−EsPZ	1826	4.0	#-396
11	−EPZ	1958	48.0	#-397
11	−EpPZ	2000	37.0	#-397
11	−EPZ	2324	38.0	
12	−EsPZ	0758	45.2	#-398
12	+EPZ	0820	35.0	
12	+EPZ	0921	30.9	
12	+EPZ	1003	49.0	
12	−EPZ	1104	14.8	
12	+EPcPZ	1401	15.2	
12	−EPZ	1556	50.2	
12	−EPZ	1750	31.2	
12	−EPZ	1947	28.4	
12	+EPZ	1957	47.8	#-399
12	+EXZ	2023	5.2	#-400
12	+EXZ	2023	19.8	#-400
12	+EPZ	2148	9.8	
13	+EpPKPdfZ	0332	49.8	#-401
13	−IpPZ	1224	24.6	#-402
13	+EXZ	1227	36.2	#-402
13	+EXZ	1502	10.4	
13	+IPZ	1618	6.0	
13	−EPZ	2218	31.2	
14	−EPZ	0202	3.4	
14	+EXZ	0400	11.6	#-403
14	+EpPZ	1603	14.2	#-404
14	−EPZ	2028	35.4	
15	+EPZ	0145	7.2	
15	+EpPZ	0955	18.8	#-405
15	+IPcPZ	1359	53.2	#-406
15	−EPZ	1615	18.4	
16	−EPZ	0228	56.6	#-407
17	NIL			
18	+EXZ	0407	17.4	#-408
18	−EPZ	1925	54.2	#-409
18	−EsPZ	1926	4.2	
18	−EXZ	2356	28.8	#-410
18	+EXZ	2356	30.0	#-410
19	+EPZ	0334	5.0	
19	−EPZ	0334	20.8	
19	−EPZ	0334	42.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
19	+EPZ	0817	4.4	
19	+EXZ	1026	11.2	#-411
19	+EPZ	1800	5.2	#-412
19	−EsPZ	1800	10.0	#-412
19	+EPZ	1835	18.2	#-413
19	+EPZ	1850	0.6	#-414
19	+EPZ	1917	47.5	#-415
19	−EXZ	2003	17.3	#-416
19	−EPcPZ	2105	7.2	#-417
20	+EPZ	1414	0.0	#-418
20	+EPcPZ	1414	3.3	#-418
20	+EPZ	1705	13.0	#-419
20	+EXZ	1729	46.2	#-420
20	−EPZ	1828	43.0	#-421
20	−EXZ	2245	16.4	#-422
21	+EPZ	0539	5.6	#-423
21	−IPcPZ	0539	8.0	#-423
21	−IPZ	1019	37.0	
21	−EPZ	1225	43.0	
21	+EPZ	1425	12.0	
21	+EPZ	2340	45.8	
22	−EPZ	0412	12.8	
22	+EPZ	0543	20.1	
22	−EPZ	1425	5.8	#-424
22	+EpPZ	1425	10.3	#-424
22	+EsPZ	1425	12.6	#-424
22	+EPZ	2036	22.8	
22	+EPZ	2253	0.6	#-425
22	−EPcPZ	2253	8.8	#-425
23	−EPZ	0107	23.7	
23	+EPZ	0512	44.0	
23	+EPcPZ	0541	6.2	#-426
23	+EPZ	0606	14.8	#-427
23	−EsPZ	0606	20.0	#-427
23	+EPZ	0812	34.0	#-428
23	−EPcPZ	0812	38.0	#-428
23	+EPZ	1002	26.2	
23	−IPZ	1002	26.2	
23	+EPZ	1109	52.0	
23	+EPZ	1242	22.0	
23	+EPZ	1318	17.0	
23	+EPZ	1318	29.2	
23	+EPZ	1319	26.5	#-429
23	−IPZ	1319	27.6	#-429
23	+EPZ	1406	7.0	
23	−EPZ	2347	12.6	
24	+EPZ	1526	38.2	
24	−EPZ	1939	46.8	#-430
24	+EPcPZ	1939	50.4	#-430
24	−EPcPZ	0148	52.6	#-431
24	+IPKPdfZ	0438	13.0	#-432
24	−IPKPbcZ	0438	16.2	#-432
24	−IPZ	0438	41.2	
24	ESH	0452	45.6	
24	−EPZ	2111	8.8	
24	−EPZ	2113	10.4	#-433
25	−IPZ	0411	49.4	#-434
25	−IPcPZ	0411	50.2	#-434
25	+EPZ	0447	21.8	
25	+EXZ	0449	15.9	#-435
25	+EPZ	0538	35.6	#-436
25	−EpPZ	0538	38.2	#-436
25	−EXZ	0600	55.4	#-437
25	+EPcPZ	0842	54.4	#-438
25	−EPZ	1201	33.0	
25	−EPZ	1206	35.6	#-439
25	+EPZ	1548	5.2	#-440
25	+IPZ	1629	44.0	#-441

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
25	+IPcPZ	1629	55.6	#-441
25	−EPZ	2145	51.0	
25	−EPZ	2145	56.3	
25	+EPZ	2320	32.0	
26	+IPZ	0438	55.0	#-442
26	+EPcPZ	0438	57.0	#-442
26	−EPZ	0628	42.6	#-443
26	+EPZ	0835	21.0	#-444
26	−EpPZ	0835	37.6	#-444
26	−IPZ	1747	54.0	
26	−EPcPZ	1748	8.2	#-445
26	−IpPZ	1748	14.6	#-445
27	+EPZ	0605	9.4	
27	+EPZ	0605	45.4	#-446
27	+EsPZ	0605	49.2	#-446
27	−IPZ	0648	49.2	#-447
27	+IpPZ	0648	52.0	#-447
28	−IPZ	0346	56.2	#-448
28	−EXZ	0347	4.2	#-448
28	+IPZ	0437	36.2	#-449
28	+IPcPZ	0437	45.0	#-449
28	−EPZ	1250	35.6	#-450
28	+EsPZ	1252	18.4	#-450
28	+EPZ	1438	56.8	#-451
28	+EpPZ	1439	7.0	#-451
28	+EPZ	2143	7.4	
28	+EXZ	2354	42.0	#-452
28	−EPcPZ	2354	47.9	#-452
28	−EpPZ	2355	40.8	#-452
29	−EPZ	0356	55.4	#-453
29	+EpPZ	0357	17.6	#-453
29	+EPZ	0515	23.2	
29	+EPdiffZ	0516	11.0	#-454
29	−IPZ	0614	3.8	#-455
29	−IpPZ	0614	39.4	#-455
29	+IPZ	1709	35.6	
29	−EPZ	1709	39.0	
29	−IPZ	2047	15.0	
29	−IXZ	2051	30.0	#-456
29	+EPcPZ	2325	20.2	#-457
29	+EpPZ	2326	49.0	#-458
29	−EXZ	2326	55.3	#-458
30	+IPZ	0101	42.7	
30	−IPcPZ	0101	48.8	
30	−IPdiffZ	0204	18.0	#-459
30	+IpPZ	0204	43.8	#-459
30	+IsPZ	0204	48.0	#-459
30	−IXZ	0546	12.8	#-460
30	+IpPKPbcZ	2203	13.0	#-461
30	+IPZ	2203	20.8	#-461
30	−EpPZ	2200	45.8	#-462
31	+EPZ	0934	14.0	
31	+EPZ	0934	21.2	
31	−IPZ	1716	12.0	
31	+IPZ	1716	15.1	
31	−IPZ	1716	37.0	
31	−IPZ	1905	24.2	
Apr.1	+IPZ	0021	24.0	#-463
1	−EPcP	0021	28.6	#-463
1	+EPZ	1009	13.0	
1	+EPZ	1355	14.8	#-464
1	−EPcPZ	1355	18.0	#-464
1	−EpPZ	1357	23.0	#-464
1	−IPZ	2213	44.5	#-465
1	−IPcPZ	2213	47.2	#-465
2	+EpPZ	0044	43.4	#-466
2	+EPZ	0118	22.0	
2	−EPdiffZ	0224	53.6	#-467

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
2	−IPZ	0908	16.6	#-468
2	−IPcPZ	0908	18.2	#-468
2	−EpPZ	1107	21.6	#-469
2	+EPcPZ	1130	29.6	#-470
2	+EPZ	1302	20.8	#-471
2	+IPZ	1440	52.0	#-472
2	−IpPZ	1440	55.0	#-472
2	−IPZ	1525	46.8	#-473
2	−IXZ	1525	48.4	#-473
3	−EPZ	1227	45.0	#-474
3	+EXZ	1649	22.0	#-475
3	+IPdiffZ	1857	22.3	#-476
3	+IPZ	1858	37.2	
4	−IPZ	0223	6.4	
4	+EPZ	0231	45.4	#-477
4	+IPZ	0240	2.5	
4	+IpPdiffZ	0241	9.0	#-478
4	−EPdiffZ	0458	26.4	#-479
4	−EPZ	1117	27.8	
4	+EPZ	1151	39.6	#-480
4	+EpPZ	1151	54.6	#-480
4	+EXZ	1422	54.0	#-481
4	−IXZ	1517	11.4	#-482
4	+EPZ	1518	26.0	
4	−IPZ	1529	57.4	#-483
5	+EPZ	0045	56.0	#-484
5	−IpPZ	0046	7.6	#-484
5	−EsPdiffz	0214	25.8	#-485
5	+EPKPdfZ	0217	37.4	#-485
5	+IPZ	0351	18.6	
5	−EPZ	0639	33.2	
5	+EPZ	1010	46.2	
5	+EPZ	1011	45.4	#-486
5	−EpPZ	1011	56.0	#-486
5	+EPcPZ	1325	45.2	#-487
5	−EpPZ	1325	56.0	#-487
5	+IsPKPdfZ	1424	26.0	#-488
5	+EPZ	1747	32.4	#-489
5	−EPcPZ	1747	38.6	#-489
5	+EPZ	1921	20.3	
5	+EXZ	2009	8.2	#-490
5	−EPZ	2010	36.2	
5	+IPZ	2015	32.0	
5	+IPZ	2208	18.6	
5	+IPZ	2241	25.4	
5	−EPZ	2307	19.4	
6	−IXZ	0050	25.6	#-491
6	−IPZ	0050	33.0	
6	−IPZ	0455	23.6	#-492
6	+EPcPZ	0455	25.0	#-492
6	−IPKiKPZ	0500	22.6	#-492
6	+EpPKiKPZ	0500	41.0	#-492
6	+EPZ	0710	22.2	
6	+EPZ	0710	24.8	
6	+EXZ	0803	18.6	
6	−EsPZ	0803	49.6	#-493
6	+IXZ	1017	18.0	#-494
6	−EsPZ	1017	32.0	#-494
6	+EPZ	1038	48.4	#-495
6	+EpPZ	1038	52.2	#-495
6	+IPPZ	1040	49.0	#-495
6	+EXZ	1140	15.0	#-496
6	+IPZ	1239	41.6	#-497
6	+EPcPZ	1239	45.1	#-497
6	−EXZ	1240	9.0	#-497
6	+EPcPZ	1240	48.8	#-498
7	+EPZ	0146	18.7	
7	+EPZ	0607	24.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
7	−EPZ	0852	5.6	
7	−EPZ	0852	8.6	
7	+EXZ	0853	36.0	#- 499
7	+EPZ	0946	34.0	
7	+IPZ	1118	35.4	
7	−EXZ	1119	51.0	#- 500
7	+EPcPZ	1119	56.0	#- 500
7	+EPZ	1206	17.0	
7	−EPZ	1428	40.6	#- 501
7	+EpPZ	1428	44.4	#- 501
7	+IPZ	1655	20.0	#- 502
7	+EPcPZ	1655	22.0	#- 502
7	−EPZ	1824	19.2	#- 503
7	+EsPZ	1824	24.6	#- 503
7	+EPZ	2343	29.4	#- 504
8	+IPZ	0511	25.1	
8	−EPZ	0621	30.6	
8	−EPZ	1554	1.4	
8	+EPZ	1839	1.1	
8	+EPZ	2017	49.9	
9	+EPZ	0045	41.0	#- 505
9	+EPZ	0516	38.0	
9	+EPZ	0516	46.1	
9	+EPZ	0853	50.1	#- 506
9	−IPZ	0852	35.8	
9	+IPZ	0911	7.8	
9	−IPZ	1206	28.4	
9	−IPZ	1206	30.8	
9	+EPZ	1756	16.2	
9	+EPZ	1958	26.0	
9	−EXZ	1958	32.0	#- 507
9	+EPZ	2056	9.4	#- 508
9	−EPZ	2056	33.4	
9	+EPZ	2304	37.2	
9	+EsPZ	2309	14.8	#- 509
10	+EPZ	0128	19.0	#- 510
10	+EPZ	0212	1.6	#- 511
10	−EsPZ	0212	9.2	#- 511
10	+EXZ	0813	30.8	#- 512
10	+EPZ	1303	2.0	
10	+EXZ	1317	5.0	#- 513
10	+EXZ	1633	5.2	#- 514
11	+IPZ	0201	5.2	#- 515
12	+EPZ	1047	16.0	#- 516
12	+EpPZ	1047	42.0	#- 516
12	−IXZ	1634	20.0	#- 517
12	−IPKPdfZ	2052	13.2	#- 518
12	+IPKiKPZ	2052	18.4	#- 518
13	+EPZ	0315	25.0	
13	−EPZ	1215	3.6	
13	+EPZ	1348	31.0	
13	−EPZ	1624	32.6	
13	−EPZ	2220	19.4	
13	−EPZ	2301	52.4	
13	+IPZ	2301	53.4	
14	+EPZ	0021	32.8	
14	−EPZ	0112	33.2	
14	−EPZ	0145	24.8	
14	−IPZ	0145	31.4	
14	+EPZ	0901	16.0	
14	+EPZ	1354	8.0	
14	+EPZ	1908	35.7	
14	+EPZ	2340	21.0	
14	+EPZ	2340	27.2	
15	−EPZ	0144	5.0	
15	+EPZ	0506	36.6	
15	−EPZ	0702	23.9	#- 519
15	−EPZ	0709	52.0	#- 520

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
15	−EPZ	1510	16.8	
15	+EPZ	1633	1.0	
15	+EPZ	1633	22.2	#- 521
15	+EpPZ	2257	11.4	#- 522
15	−EPZ	2309	20.0	#- 523
15	+EPcPZ	2309	23.1	#- 523
15	+EPZ	2339	22.0	
16	+EPZ	0205	7.7	
16	+EPZ	0310	18.4	
16	+EPZ	0612	20.8	
16	+IPZ	0401	29.6	#- 524
16	−EPcPZ	0401	31.5	#- 524
16	+EpPZ	0401	53.2	#- 524
16	+EPZ	0650	25.8	#- 525
16	−EpPZ	0650	38.4	#- 525
16	+EsPZ	0650	43.2	#- 525
16	−EPZ	0845	5.0	
16	−EPZ	0845	10.0	
16	+EPZ	0918	31.0	#- 526
16	+EpPZ	0918	34.7	#- 526
16	+EPZ	1013	34.8	
16	−EPZ	1013	38.8	
16	−EPZ	1028	46.8	
16	−IPZ	1028	48.0	
16	−IPZ	1028	51.4	
16	−EXZ	1137	41.7	#- 527
16	−EPZ	1428	31.0	#- 528
16	−EPZ	1452	35.5	#- 529
16	−EPZ	1554	45.0	#- 530
16	+EXZ	1601	34.8	#- 531
16	−EPZ	1834	24.6	#- 532
16	+EPcPZ	2207	9.6	#- 533
16	+IPZ	2308	32.4	
16	+IPZ	2308	39.1	
16	ESH	2319	29.2	
17	+EPZ	0200	19.9	
17	+EXZ	0329	30.6	#- 534
17	+IPZ	0405	31.0	
17	+EpPZ	0505	48.4	#- 535
17	+EPZ	0518	0.6	#- 536
17	+EPcPZ	0518	2.8	#- 536
17	−IpPZ	0518	14.6	#- 536
17	−EPZ	1003	3.0	
17	−EPZ	1004	27.7	#- 537
17	+EPdiffZ	1126	31.7	#- 538
17	+EpPdiffZ	1126	36.4	#- 538
17	+IPZ	1218	3.6	
17	+EPZ	1604	5.0	
17	−EPZ	1604	10.0	
17	−EPZ	1826	10.0	#- 539
17	−EXZ	2046	30.4	#- 540
18	+EPdiffZ	1423	11.0	#- 541
18	+IPZ	2125	23.0	#- 542
18	−IpPZ	2125	25.4	#- 542
18	−IPZ	2138	13.0	#- 543
18	−IsPZ	2138	17.2	#- 543
19	−IPZ	0321	51.4	
19	+IPZ	0321	57.8	
19	+IPZ	0434	1.2	
19	+IPZ	0614	6.1	
19	+EPZ	0725	21.0	
19	−EPZ	0908	41.1	#- 544
19	−EPcPZ	0908	44.0	#- 544
19	+EPZ	1013	29.0	#- 545
19	−IPZ	1211	21.2	
19	−IPZ	1738	3.4	#- 546
19	+EpPZ	1738	17.8	#- 546
19	+EsPZ	1738	23.0	#- 546

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
19	−EPPZ	1741	29.4	#-546
19	−IPZ	1803	26.6	#-547
19	+IPcPZ	1803	38.4	#-547
19	−EPZ	2017	51.0	
19	−EPZ	2017	56.0	
19	+EPZ	2018	4.6	
19	−IXZ	2018	13.8	#-548
19	−IPKiKPZ	2018	19.0	#-548
19	−IpPKPbcZ	2018	26.8	#-548
19	−EXZ	2015	26.0	#-549
19	+IPZ	2113	44.4	
19	−IPZ	2113	46.4	
19	−IPZ	2113	47.4	
19	−EpPZ	2154	38.9	#-550
19	+EsPZ	2154	42.0	#-550
19	−EPZ	2214	2.6	
20	−EPZ	0015	42.8	
20	+EPZ	0015	51.2	
20	−IPKiKPZ	0021	15.0	#-551
20	+EpPKiKPZ	0021	22.4	#-551
20	+EXZ	0021	44.0	#-551
20	+EPZ	0041	44.0	#-552
20	−EXZ	0126	30.8	#-553
20	+EPZ	0129	32.6	
20	+EPZ	0150	43.0	
20	−EPZ	0222	20.4	
20	−EPZ	0345	38.5	
20	−EPZ	0345	51.4	
20	−EPZ	0355	2.6	
20	−EPZ	0355	7.0	#-554
20	−EXZ	0355	20.0	#-554
20	−IPZ	0503	30.8	#-555
20	+IPcPZ	0503	38.0	#-555
20	ESH	0513	39.3	#-555
20	−IPZ	0516	55.0	#-556
20	−IpPZ	0516	56.0	#-556
20	ESH	0521	11.0	#-556
20	+EPZ	0907	27.2	
20	+EPZ	0907	34.6	
20	−EPZ	1332	22.4	
20	−IPZ	1332	25.6	
20	+IPKPbcZ	1337	46.6	#-557
20	+EPKiKPZ	1337	54.0	#-557
20	ESH	1359	50.0	
20	+EPZ	1508	49.6	
20	+EPZ	1508	54.0	
20	+EPZ	1858	4.4	
20	−EPdiffZ	2108	12.4	#-558
20	−EPZ	2148	2.2	
21	+EPZ	0113	4.2	
21	+EPZ	0113	7.0	
21	+EPZ	0249	12.8	
21	+EPZ	0321	24.4	
21	−IPKPdfZ	0340	17.4	#-559
21	−EPKiKPZ	0340	19.6	#-559
21	−IPZ	0340	23.0	
21	+IPZ	0409	4.8	
21	+EXZ	0454	42.0	#-560
21	−EPZ	0745	25.0	
21	+EPZ	0921	22.0	
21	−EPZ	0921	31.0	
21	+EPZ	1108	10.0	
21	+EPcPZ	1248	26.0	#-561
21	+EpPZ	1248	41.7	#-561
21	+IXZ	1408	14.0	#-562
21	−IXZ	1408	23.6	#-562
21	+IpPKPbcZ	1408	39.7	#-562
21	+EPZ	1519	12.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
21	−EPZ	1519	16.0	
21	+EPZ	2316	34.1	#- 563
21	−EPcPZ	2316	41.4	#- 563
22	−EPZ	0019	38.4	
22	+EPZ	0313	33.0	
22	−EPZ	0313	36.8	
22	+EPZ	0313	40.4	
22	−EPZ	0456	38.6	
22	−EPZ	0456	51.8	
22	+EPdiffZ	0927	41.0	#- 564
22	+EpPdiffZ	0927	46.4	#- 564
22	−EPZ	1014	1.6	
22	−EPZ	1014	11.4	
22	+EXZ	1042	12.6	#- 565
22	+IPKiKPZ	1042	21.6	#- 565
22	+EXZ	1318	2.2	#- 566
22	+EPcPZ	1318	7.6	#- 566
22	−EXZ	1335	40.6	#- 567
22	−EXZ	1335	51.4	#- 567
22	+EPZ	1416	17.4	
22	−EPZ	1445	17.8	
22	+EPZ	1445	22.0	
22	−EPZ	1445	45.0	
22	−EXZ	1551	53.3	#- 568
22	+EPZ	1718	18.0	
22	−EPZ	1718	23.0	
22	+EPZ	1718	31.6	
22	+EPZ	1804	10.0	
22	+EPZ	2115	3.8	
22	+IPZ	2115	15.6	#- 569
22	+EXZ	2115	44.2	#- 569
22	+EPZ	2308	16.0	
22	+EPZ	2308	34.0	
22	−IPZ	2352	45.0	#- 570
22	+IPcPZ	2352	54.8	#- 570
22	ESH	0002	14.0	#- 570
23	+EPZ	0223	29.0	
23	+EPZ	0616	42.4	
23	−EPZ	0631	34.8	#- 571
23	+EPZ	0814	1.1	
23	+EPZ	0814	9.0	
23	−EPZ	0822	39.4	
23	+EPZ	1114	8.4	
23	+EPZ	1308	18.0	
23	+EPZ	1608	1.4	
23	+IPZ	2328	3.0	#- 572
23	+IpPZ	2328	5.2	#- 572
23	−EsPZ	2328	9.2	#- 572
23	−EXZ	2331	44.4	#- 572
23	ESH	2339	13.0	#- 572
24	+EPZ	0006	9.0	
24	+EPZ	0514	40.0	#- 573
24	−EpPZ	0514	51.4	#- 573
24	−EPZ	1313	14.8	
24	−EPZ	1313	19.2	
24	+EPZ	1421	43.0	
24	−EPZ	1424	9.4	
24	+EPZ	1424	20.0	
24	−EXZ	1424	26.0	#- 574
24	−EPZ	1515	4.9	
24	−EPZ	1553	14.0	
24	+EPZ	2224	40.6	
24	−EPZ	2229	15.6	
25	−EPZ	0112	37.4	
25	−EPZ	0403	23.0	#- 575
25	+EPZ	1607	9.0	
25	+EXZ	1820	48.0	#- 576
25	+EPZ	1821	49.1	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
25	+EPZ	18	23	17.0	
25	−EPZ	18	42	2.0	
25	−EPZ	19	09	3.0	
25	+EPZ	19	22	7.8	
25	+EPZ	19	40	17.0	
25	−EPZ	22	42	9.0	
25	−EPZ	22	42	27.2	
25	+EPKiKPZ	22	42	41.3	#- 577
25	+IPKPdfZ	22	52	28.0	#- 578
25	−EpPKPdfZ	22	52	35.1	#- 578
25	+EPZ	23	15	11.5	
26	+EPZ	01	25	10.6	#- 579
26	+EPZ	01	25	13.4	
26	−EPZ	02	16	2.3	
26	−EPKPdfZ	03	35	40.6	#- 580
26	+EPZ	04	19	12.0	
26	−EPZ	07	04	49.0	
26	−IPZ	07	04	50.8	
26	ESH	07	14	13.7	
26	+EPZ	08	22	5.6	
26	−EPZ	11	16	18.4	
26	−EPZ	11	18	31.8	
26	−EPZ	12	06	3.0	
26	+EPZ	13	24	29.2	
26	−EPZ	14	11	6.0	
26	+EpPZ	20	23	29.6	#- 581
26	−EsPZ	20	23	37.0	#- 581
27	+EPZ	02	18	7.2	
27	−EPZ	02	18	14.0	
27	+EPZ	06	04	40.0	
27	−EPZ	06	24	13.4	
27	+EPZ	11	22	1.1	
27	+EPZ	11	22	20.3	
27	−EPZ	22	02	12.6	
27	+EXZ	22	03	20.0	#- 582
27	+EXZ	22	03	45.6	#- 582
27	+EXZ	22	18	22.0	#- 583
28	+EPZ	13	10	13.7	
28	+EPZ	16	20	41.3	
28	+EPZ	16	20	47.6	
28	+EPZ	21	38	44.4	
29	+EXZ	01	54	25.0	#- 584
29	+EPZ	04	20	24.0	
29	+EPZ	07	22	2.8	
29	−EPZ	10	45	4.6	
29	+EPZ	13	15	29.0	
29	−IPKPdfZ	13	20	44.2	#- 585
29	−IXZ	13	20	49.2	#- 585
29	+EXZ	13	55	28.4	#- 586
29	+EPZ	20	53	3.6	
29	+EPZ	21	21	37.8	
29	+EPZ	21	51	10.0	
29	−EPZ	22	43	47.1	
29	+EPZ	23	53	7.6	
30	+EPZ	00	17	43.0	
30	−EXZ	01	22	32.4	#- 587
30	−EPZ	04	08	4.0	#- 588
30	+EXZ	04	08	20.8	#- 588
30	+EPZ	08	43	3.2	
30	−EPZ	10	45	43.2	#- 589
30	−IXZ	10	45	45.0	#- 589
30	−EpPZ	10	45	56.2	#- 589
30	+EPZ	11	07	43.0	#- 590
30	−IPZ	14	47	15.6	#- 591
30	−IPPZ	14	49	0.6	#- 591
30	ESH	14	53	37.0	#- 591
30	+EPZ	15	33	14.8	
30	−IPZ	19	11	25.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
30	+EPZ	2124	16.0	
30	+EPZ	2318	29.8	
May 1	−EPZ	0014	10.0	
1	+EPZ	0014	17.2	
1	+EPcPZ	0100	37.8	#- 592
1	+EPZ	0231	3.6	
1	+EPZ	0231	6.4	
1	+EPdiffZ	0551	47.0	#- 593
1	−EPZ	0622	1.0	
1	+EPZ	0703	27.0	
1	−EPZ	0710	58.4	#- 594
1	−EPZ	0740	26.0	
1	+EPZ	0740	34.2	
1	+EPZ	0901	17.0	
1	+EPZ	1004	7.0	#- 595
1	−IPcPZ	1004	11.8	#- 595
1	+EPcPZ	1028	6.6	#- 596
1	−EPZ	1134	5.4	
1	+EPZ	1542	13.4	
1	−EPZ	1814	5.0	
1	+EPZ	1814	16.6	
1	+EPZ	1814	27.2	
1	+IPZ	2158	30.6	
1	+EPZ	2158	35.0	
1	+EPZ	2158	42.0	
1	+EPZ	2253	9.4	
2	−EPZ	0134	34.6	
2	+EPZ	0319	19.4	
2	−EPZ	0734	6.2	
2	+EPZ	1010	26.0	
2	+EPZ	1357	26.7	
2	+EPZ	1447	40.0	
2	+EPZ	1623	10.0	
2	+EPZ	1710	14.0	
2	+EPZ	1953	1.2	#- 597
2	+EpPZ	1953	6.2	#- 597
2	−EsPZ	1953	7.6	#- 597
2	+EPZ	2120	28.0	#- 598
2	−EpPZ	2120	40.1	#- 598
2	+EsPZ	2120	44.0	#- 598
2	+EPZ	2333	11.4	
2	+EPZ	2333	26.4	
3	−EPZ	0033	9.0	
3	+EPZ	0141	3.0	
3	+EPZ	0201	19.3	
3	+IPZ	0333	35.9	
3	+EPZ	0508	14.8	
3	−IPKPdfZ	0629	34.2	#- 599
3	−EPKPbcZ	0629	35.4	#- 599
3	+IpPKPbcZ	0630	16.0	#- 599
3	−IpPKPabZ	0630	18.0	#- 599
3	−EPZ	0834	15.8	
3	+IPZ	0929	36.5	#- 600
3	−IppZ	0929	38.3	#- 600
3	+EPcPZ	0929	57.1	#- 600
3	+EPZ	1033	45.0	#- 601
3	+EXZ	1227	38.0	#- 602
3	+EPZ	1240	35.8	
3	+EPZ	1454	20.3	
3	+EPZ	1616	13.5	
3	+EPZ	1824	15.0	
3	+EPZ	1928	11.0	
3	−EPZ	1939	28.0	
3	+EPZ	2305	27.0	
3	−EPZ	2305	29.7	
4	+EPZ	0143	44.6	
4	+IPZ	0335	12.0	#- 603
4	−EPcPZ	0335	32.6	#- 603

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
4	+EPZ	0419		0.4	#-604
4	+EPZ	0547		40.4	
4	+EPZ	0630		10.6	
4	−IPZ	0630		14.0	
4	−EPZ	0640		37.6	#-605
4	+EPcPZ	0640		39.6	#-605
4	+EPZ	0741		21.0	
4	+EPZ	0956		36.2	#-606
4	+EPZ	0959		14.0	
4	+EPZ	1007		4.0	
4	−EPZ	1007		8.5	
4	+EPZ	1039		22.0	
4	+EPZ	1039		25.0	
4	+EPZ	1120		18.0	
4	+EPZ	1120		27.0	
4	+EPZ	1258		15.6	
4	+EPZ	1319		4.0	
4	−EPZ	1510		7.0	
4	+EPZ	1852		3.0	
4	−EPZ	1852		8.6	
4	+EXZ	2348		55.2	#-607
4	+EPcPZ	2349		45.0	#-607
5	+EPZ	0110		29.4	#-608
5	+EPcPZ	0110		35.0	#-608
5	+EPZ	0215		39.0	
5	+EPZ	0223		22.0	
5	−EPZ	0344		4.4	
5	+EPZ	0634		23.1	
5	+EPZ	0634		35.4	
5	+IPZ	1145		57.6	
5	+EPZ	1159		4.8	
5	+EPZ	1331		55.8	#-609
5	+EPcPZ	1331		57.6	#-609
5	+EPZ	1332		9.2	
5	+EPZ	1518		7.0	
5	+EPZ	1518		10.0	
5	+EPZ	1554		30.6	
5	+EPZ	1741		12.2	
5	+EPZ	1752		35.4	
5	+EPZ	1853		46.4	
5	−EPZ	1935		26.3	
5	+IPZ	2012		29.4	#-610
5	−IXZ	2012		39.8	#-610
5	+EPZ	2326		11.0	
6	+EPcPZ	0228		52.8	#-611
6	+EPZ	0252		49.0	
6	−EPZ	0244		8.4	
6	−EPZ	0458		27.4	
6	+EPZ	0552		24.0	
6	+EPZ	0552		27.2	
6	+EPZ	0638		16.1	
6	−EPZ	0752		25.0	
6	+EPZ	0752		27.2	
6	+EPZ	1158		20.5	
6	+EXZ	1158		37.0	#-612
6	+EPZ	1227		25.4	
6	−EPZ	1227		29.6	
6	+EPZ	1333		6.4	
6	−EPZ	1429		41.2	
6	+EPZ	1942		3.6	
6	−EPZ	2001		53.4	#-613
6	+EpPZ	2002		4.6	#-613
6	+EPZ	2150		37.0	
6	+EPZ	2215		25.0	
7	−EPZ	0048		5.0	
7	+EPZ	0048		7.8	
7	+IPZ	0434		24.2	
7	+IPZ	0434		37.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
7	+IPZ	0725	14.5	
7	+IPZ	0725	19.6	
7	−EPZ	1025	33.6	
7	−IPZ	1023	36.0	
7	+IPZ	1023	41.6	
8	+EPZ	0037	26.2	
8	+EPZ	0616	37.6	
8	−EPZ	0616	40.6	
8	+EPZ	1147	13.4	
8	−EPZ	1147	22.4	
8	−EPZ	1648	35.4	
8	+EPZ	1933	18.0	
9	+EPZ	0228	28.0	
9	+EPZ	0436	7.6	
9	+EPZ	0436	10.0	
9	−EPZ	0454	12.0	
9	−EPZ	0541	22.2	
9	−EPZ	0840	40.6	
9	+EPZ	0840	47.6	
9	−EPZ	1213	27.6	
9	+EXZ	1409	26.6	#-614
9	+EPZ	1419	44.4	#-615
9	−EsPZ	1419	47.1	#-615
9	+EPZ	1544	11.6	
9	+EPZ	1544	33.0	
9	−EPZ	1842	4.4	
9	−EPZ	1842	10.0	
9	−EPZ	2044	0.6	
9	+EPZ	2044	10.6	
9	+EPZ	2044	19.1	
9	−EPZ	2050	33.6	
9	+EPZ	2245	6.8	
9	+EPZ	2245	19.0	
9	+EPZ	2245	24.4	
10	−EPZ	0007	38.2	
10	−EPZ	0114	24.0	
10	+EPZ	0218	27.0	
10	+EPZ	0256	50.4	
10	−EPZ	0347	47.0	
10	+IPnZ	0631	50.8	#-616
10	−IPnZ	0631	52.0	#-616
10	−EPZ	0645	10.4	
10	+EPZ	0741	16.0	
10	−EpPKPdfZ	0858	19.2	#-617
10	−IPKiKPZ	0858	24.0	#-617
10	−IpPKPbcZ	0858	28.8	#-617
10	+EPZ	0953	29.6	
10	+EPZ	1046	1.5	
10	−EPZ	1107	33.0	#-618
10	+EXZ	1109	38.5	#-618
10	+EPZ	1131	3.2	#-619
10	−EPZ	1239	21.6	
10	+EPZ	1239	33.5	
10	+EPZ	1320	11.0	
10	+EPZ	1343	42.0	
10	−IPZ	2004	59.2	#-620
10	+IsPZ	2005	0.6	#-620
10	+EXZ	2104	40.0	#-621
10	+EXZ	2104	49.0	#-621
10	+EPZ	2306	32.0	
10	+EPZ	2306	39.6	
10	+IPZ	2341	14.4	
11	−EPZ	0221	41.0	
11	−EPZ	0231	25.6	#-622
11	−EpPZ	0243	25.2	#-623
11	−EsPZ	0246	27.0	#-624
11	+EXZ	0323	39.7	#-625
11	+EPZ	0443	24.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
11	−EPZ	0450	38.4		#-626
11	+EXZ	0450	47.4		
11	+EPcPZ	0547	45.3		
11	+EPZ	0646	13.4		
11	+EPZ	0812	10.0		
11	−EPZ	1015	6.2		
11	−EPZ	1040	9.5		
11	−EPZ	1143	46.4		
11	−EPZ	1252	11.4		
11	+EPZ	1550	42.0		
11	+IPZ	2059	30.0		
11	+EPZ	2059	35.4		
11	+IPZ	2059	39.8		
11	−IPZ	2059	48.8		
11	ESH	2109	53.0		
11	−EPZ	2151	20.8		
11	−EPZ	2151	30.2		
11	+EPZ	2227	10.0		
11	+EPZ	2227	14.2		
11	+EPZ	2234	34.8		
11	+EPZ	2322	27.4		
12	+EXZ	0020	39.0		#-627
12	−EPZ	0041	18.0		
12	+EPZ	0041	23.5		
12	+EPZ	0145	37.4		
12	+EPZ	0145	43.7		
12	+EPZ	0436	20.0		
12	+EPZ	0734	20.2		
12	+EPZ	0734	24.8		
12	+EXZ	0920	25.0		#-628
12	−EPZ	0937	23.4		
12	+EPZ	0937	25.0		
12	−EPZ	1108	20.3		#-629
12	+EpPZ	1108	26.3		#-629
12	+EPZ	1137	23.0		
12	+EPZ	1210	9.0		
12	−EPZ	1211	7.0		#-630
12	+EPZ	1211	21.0		
12	+EPZ	1219	16.0		
12	+EPZ	1219	22.6		
12	+EPZ	1303	30.0		#-631
12	+EPcPZ	1303	38.6		#-631
12	−EPZ	1304	5.8		
12	+EsPZ	1304	14.2		#-631
12	−EPZ	1310	34.0		#-632
12	−IpPZ	1310	36.0		#-632
12	−IsPZ	1310	37.4		#-632
12	+EPZ	1319	1.6		
12	−EPZ	1319	6.8		
12	−EPZ	1319	15.9		
12	+EPZ	1245	38.5		
12	+EPZ	1351	1.2		
12	+EPZ	1443	7.4		
12	−EPZ	1516	9.5		
12	−EPZ	1529	27.2		
12	+EPZ	1631	1.8		
12	+EPZ	1631	5.4		
12	+EPZ	1713	38.8		
12	−EPZ	1713	41.0		
12	+EPZ	1749	13.2		
12	+EPZ	1749	16.4		
12	−EPZ	1918	15.0		#-633
12	−EPcPZ	1918	18.8		#-633
12	+EPKPdfZ	2026	36.6		#-634
12	+EXZ	2027	6.4		#-634
12	+EPZ	2136	18.4		
12	+EPZ	2259	52.0		
12	−IPKPdfZ	2302	1.2		#-635

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
12	+EPKiKPZ	2302	4.4	#-635
12	+EPKPdfZ	2323	47.2	#-636
12	+EPKiKPZ	2323	51.1	#-636
13	−EPZ	0037	5.2	
13	−EPZ	0056	12.8	
13	+EPZ	0228	27.1	
13	−EPZ	0228	29.8	
13	+EPZ	0316	20.2	
13	+EPZ	0509	31.2	
13	+EPZ	0639	1.0	
13	−EPZ	0639	5.0	
13	+EPZ	0740	6.8	
13	+EPZ	0740	14.8	
13	+EPZ	0958	12.0	
13	−EPZ	0958	14.0	
13	+EPZ	1048	9.5	
13	−EPZ	1048	15.8	
13	+EPZ	1333	14.6	
13	+EpPZ	1407	25.0	#-637
13	−EPZ	2349	46.1	
14	−IPZ	0020	37.0	
14	−EPcPZ	0020	39.0	
14	−EPZ	0049	53.0	
14	+EPZ	0051	30.2	
14	ESH	0055	41.0	
14	+EPZ	0100	41.0	
14	+EPZ	0851	29.9	
14	+EPZ	0851	34.4	
14	+EPZ	1037	42.2	
14	−IPKPdfZ	1038	55.4	#-638
14	+IPZ	1650	22.7	
14	−EPZ	1650	29.4	
14	+EPZ	1838	47.2	
14	+EPZ	1930	14.0	
14	−IPcPZ	1930	23.4	
14	+EPZ	2006	9.8	
14	+EpPZ	2144	15.4	#-639
14	−EPZ	2345	5.2	
14	−IPZ	2351	29.8	#-640
14	−IPcPZ	2351	32.8	#-640
14	+EpPZ	2351	57.4	#-640
15	+EPZ	0035	14.2	
15	−IXZ	0134	48.0	#-641
15	−EPcPZ	0134	50.6	#-641
15	−EPZ	0244	16.7	
15	−EPZ	0244	27.6	
15	−EPZ	0349	10.0	
15	−IPZ	0349	12.4	
15	−EPZ	0349	21.7	
15	−EPZ	0453	43.0	
15	+EPZ	0638	3.3	
15	+IPZ	0814	26.6	#-642
15	−IPcPZ	0814	31.0	#-642
15	+EPZ	0837	11.9	
15	−EXZ	1034	19.0	#-643
15	+EPcPZ	1034	29.8	#-643
15	+EPZ	1043	30.7	
15	−EPZ	1107	19.0	
15	−EPZ	1108	12.6	
15	+EPZ	1111	52.2	#-644
15	−EpPZ	1112	14.0	#-644
15	−EXZ	1159	42.0	#-645
15	−EXZ	1408	38.0	#-646
15	+EPZ	1546	21.0	
15	+EPZ	1546	36.4	
15	+EPZ	1546	44.6	
15	+EPZ	1641	11.1	
15	−EPZ	1643	23.0	#-647

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
15	+EXZ	1643		29.0	#-647
15	+EPZ	2342		31.7	
15	−IPZ	2342		35.4	
16	−EPZ	0051		25.8	
16	+EPZ	0154		43.4	
16	−EPZ	0351		40.6	
16	−IPnZ	0322		29.4	#-648
16	−IpPZ	0322		35.4	#-648
16	−EPZ	0524		23.0	#-649
16	−IPnZ	0524		25.2	#-649
16	+EPZ	0539		53.2	
16	−EPnZ	0546		56.0	#-650
16	−EPZ	0546		58.8	#-650
16	+EPZ	0601		51.0	
16	−IPZ	0602		5.6	#-651
16	−IpPZ	0602		8.0	#-651
16	+IsPZ	0602		11.0	#-651
16	+EPZ	0636		27.0	
16	+EPZ	0636		34.4	
16	−EPZ	0636		43.4	
16	+EPZ	0707		9.4	
16	+EPZ	0707		13.2	
16	−EPZ	0707		14.0	
16	+EPZ	0850		25.0	
16	+EPZ	1015		16.4	
16	+EPZ	1045		24.0	
16	−EPZ	1254		24.0	
16	+EPZ	1448		11.7	
16	+EPZ	1448		17.0	
16	+EPZ	1448		20.0	
16	−EsPZ	1638		35.2	#-652
16	+EPZ	1638		41.2	
16	+EPZ	1643		5.0	
16	+EPZ	1743		35.6	
16	+IPZ	1838		39.2	#-653
16	−IPcPZ	1838		41.2	#-653
16	+EPZ	2013		22.0	
16	+EPZ	2013		26.4	
16	−EPZ	2158		32.4	
16	+EPZ	2244		42.8	
16	+EPZ	2323		54.4	#-654
16	−EpPZ	2323		57.6	#-654
16	−EPZ	2350		24.2	
17	+EPZ	0033		0.1	
17	+EPZ	0033		14.4	
17	−EPZ	0106		2.0	
17	+EPZ	0106		17.2	
17	+EPZ	0239		11.0	
17	−EPZ	0239		14.4	
17	+EPZ	0353		2.0	
17	+EPZ	0353		14.8	
17	+EPZ	0439		35.0	
17	+EPZ	0439		40.2	
17	+EPZ	0540		4.0	
17	+EPZ	0540		13.0	
17	+EPZ	0557		24.0	
17	+EPZ	0605		17.9	
17	+EPZ	0656		20.4	
17	−EPZ	0656		24.6	
17	+EPZ	0708		46.6	#-655
17	+EPZ	0815		38.7	
17	+EPZ	0824		12.0	
17	+EPZ	0824		48.6	
17	−EPZ	0845		42.0	#-656
17	−IPcPZ	0845		44.0	#-656
17	−EpPZ	0846		3.0	#-656
17	+EPZ	1035		30.0	
17	−EPZ	1124		44.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
17	−EPZ	1125		24.0	
17	−EPZ	1126		19.4	#- 657
17	−EPcPZ	1126		23.0	#- 657
17	+EPZ	1135		29.0	
17	+EPZ	1225		30.0	
17	+EPZ	1225		35.2	
17	+EPcPZ	1642		43.2	#- 658
17	−EPZ	1857		17.7	
17	+EPZ	2136		26.6	#- 659
17	+EPZ	2153		47.2	#- 660
17	+EPZ	2156		4.0	#- 661
17	+EXZ	2156		35.8	#- 661
17	+EPZ	2347		4.2	
17	+EPZ	2347		13.0	
18	+EPZ	0042		7.0	
18	+EPZ	0042		14.7	
18	+EPZ	0153		15.0	
18	+EPZ	0215		11.0	
18	−EPZ	0215		18.0	
18	+EPZ	0235		18.2	
18	+EPZ	0409		47.4	
18	−IPZ	0409		49.8	
18	+EPZ	0438		24.0	
18	−EPZ	0438		29.8	
18	+EPZ	0529		0.4	#- 662
18	+EPZ	0532		7.4	
18	+EPZ	0606		52.0	
18	+EPZ	0654		0.4	
18	+EPZ	0654		4.0	
18	−EPZ	0706		17.0	
18	+EPZ	0706		22.1	
18	+EPZ	0741		38.2	
18	−EPZ	0856		2.0	
18	+EPZ	0935		29.0	
18	+EPZ	0935		31.0	
18	+EPZ	0935		34.6	
18	−EPZ	1017		3.0	
18	+EpPZ	1111		20.0	#- 663
18	+EPZ	1111		36.6	
18	+EPZ	1156		12.4	#- 664
18	+EPcPZ	1156		18.6	#- 664
18	+EXZ	1156		34.6	#- 664
18	+EPZ	1344		35.0	
18	−EPZ	1350		26.4	
18	+EPZ	1445		25.0	
18	+EPZ	1509		2.2	
18	−EPZ	1509		18.0	
18	+EPZ	1547		54.4	#- 665
18	−EPZ	1730		25.0	#- 666
18	+EPcPZ	1730		30.0	#- 666
18	−EPZ	1809		16.8	
18	+EPZ	2046		15.2	
18	−EPZ	2155		5.2	
18	+EPZ	2331		14.8	#- 667
19	+EPZ	0053		34.0	
19	−EPZ	0448		23.6	
19	−EPZ	0632		35.6	
19	+EPZ	0632		37.6	
19	−EPZ	0639		14.0	
19	+EPZ	0639		23.0	
19	+IPZ	0721		31.0	
19	+IPZ	0721		35.6	
19	−EPZ	0937		3.2	
19	−IPZ	1113		59.6	#- 668
19	−IsPZ	1114		2.0	#- 668
19	−EPcPZ	1114		8.8	#- 668
19	+EPZ	1337		20.0	
19	+EPZ	1439		42.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
19	−EPZ	1439		46.2	
19	+EPKPdfZ	1804		22.6	#-669
19	−EPKiKPZ	1804		29.0	#-669
19	−EpPKPbcZ	1804		38.6	#-669
19	+IPKPdfZ	1903		51.8	
19	+IPKPbcZ	1903		55.0	
19	+IPKiKPZ	1903		56.4	
19	+EPKPdfZ	1941		4.2	#-670
19	+EPKPabZ	1941		10.8	#-670
19	+EPZ	1957		7.0	
19	−EPZ	1957		14.2	
19	+EPKPdfZ	2002		57.0	#-671
19	−EPKPbcZ	2003		2.0	#-671
19	+EPKPabZ	2003		5.6	#-671
19	+EpPKPdfZ	2003		13.4	#-671
19	−EPZ	2026		24.6	
19	−EPKPdfZ	2011		4.0	#-672
19	+EPKPbcZ	2011		8.0	#-672
19	+EPKPabZ	2011		12.0	#-672
19	+EXZ	2012		46.6	#-673
19	+EPKPdfZ	2039		50.0	#-674
19	+EpPKPdfZ	2040		3.4	#-674
19	+EXZ	2050		50.0	#-675
19	−EPZ	2055		30.6	
19	−EPKPdfZ	2124		54.0	#-676
19	−EPKPbcZ	2124		56.8	#-676
19	−EPKiKPZ	2125		0.2	#-676
19	−EPKPabZ	2125		1.8	#-676
19	+IPKPdfZ	2258		29.0	#-677
19	−EPKPbcZ	2258		31.4	#-677
19	−EPKiKPZ	2258		34.2	#-677
19	−IpPKiKPZ	2258		46.0	#-677
19	−EPZ	2335		4.2	
20	−EPKPdfZ	0009		59.0	#-678
20	−EPKiKPZ	0010		3.0	#-678
20	+IPKPdfZ	0011		11.7	#-679
20	−IPKiKPZ	0011		16.0	
20	−IpPKPdfZ	0011		25.8	
20	−IPKPdfZ	0032		55.2	#-680
20	−IPKPbcZ	0032		58.4	#-680
20	+IPKiKPZ	0033		1.6	#-680
20	−IpPKPdfZ	0033		6.0	#-680
20	ESH	0042		27.6	#-680
20	−EPKPdfZ	0127		15.9	#-681
20	−EPKPbcZ	0127		18.4	#-681
20	+EpPKPdfZ	0127		30.6	#-681
20	−EpPKPbcZ	0127		33.7	#-681
20	+EPZ	0235		41.0	
20	+EPZ	0316		15.2	
20	+EPZ	0316		23.4	
20	−EPZ	0316		29.0	
20	−EPZ	0555		14.2	
20	+EPZ	0555		17.2	
20	−EPZ	0740		0.4	#-682
20	+EXZ	0740		22.0	#-682
20	−EPZ	0958		50.0	
20	−EPZ	0958		54.8	
20	+IPZ	0959		1.6	
20	+IPZ	0959		4.4	
20	+EPZ	1145		52.1	
20	+EPcPZ	1508		18.4	#-683
20	+EPZ	1651		27.4	
20	+EPZ	2033		24.8	
20	+EPKPdfZ	2033		34.2	#-684
20	+EPKPabZ	2033		42.4	#-684
20	+EPZ	2308		43.6	
20	+EPZ	2311		19.4	
20	−EPZ	2311		37.5	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
20	−EXZ	2320	16.0	#-685
20	+EXZ	2320	23.8	#-685
20	−EPKPdfZ	2321	4.0	#-686
20	+IpPKPdfZ	2321	13.0	#-686
20	+EPZ	2339	20.2	
20	+EPZ	2341	2.4	
21	−EPZ	0038	7.8	
21	−EPZ	0123	34.0	
21	+EPZ	0214	46.6	
21	+EPZ	0244	43.4	
21	−EXZ	0325	27.0	#-687
21	−IPKiKPZ	0325	38.5	#-687
21	+EPZ	0439	39.6	
21	+EPZ	0439	40.2	
21	+EPKPdfZ	0443	46.1	#-688
21	−EPKPbcZ	0443	48.8	#-688
21	−EPZ	0519	13.0	
21	−EPZ	0519	17.6	
21	+EPZ	0519	21.0	
21	+EPZ	0602	52.6	
21	−EPZ	0602	57.3	
21	−EPZ	0722	2.4	
21	−IPZ	0722	5.0	
21	+IPZ	0722	33.8	
21	+EPZ	0843	0.6	
21	+EXZ	0844	34.6	#-689
21	−EpPZ	0954	44.6	#-690
21	−EPZ	1254	9.0	
21	+EPZ	1301	31.4	#-691
21	+EpPZ	1301	39.6	#-691
21	+EsPZ	1301	45.0	#-691
21	+EXZ	1340	0.8	#-692
21	−IXZ	1340	3.6	#-692
21	−EPZ	1445	19.2	
21	+EPZ	1445	23.1	
21	+EPZ	1445	41.0	
21	+EPKPdfZ	1510	58.0	#-693
21	−EPKPbcZ	1511	2.4	#-693
21	−EpPKPdfZ	1511	10.0	#-693
21	−IpPKPbcZ	1511	14.6	#-693
21	+EXZ	1507	37.0	#-694
21	−EpPdiffZ	1508	50.0	#-694
21	+EPZ	1522	25.2	
21	−EPZ	1548	27.0	
21	−EPZ	1811	2.0	
21	+EPZ	1905	5.4	#-695
21	−EXZ	1905	26.0	#-695
21	+EPZ	2049	44.0	
21	+EPZ	2315	7.0	
21	−IPZ	2315	8.2	
21	−EPZ	2315	13.2	
21	+EPZ	2322	29.8	#-696
21	+EPcPZ	2322	39.6	#-696
21	+EPZ	2354	5.0	
22	+EPZ	0042	8.0	
22	+IPZ	0656	33.2	
22	+EPZ	0656	43.8	
22	+EPZ	1009	15.8	
22	+EPZ	1009	20.3	
22	−EPZ	1058	27.2	
22	−EPZ	1147	10.7	#-697
22	−EPcPZ	1147	21.6	#-697
22	+EpPZ	1147	22.0	#-697
22	+EPZ	1302	15.6	
22	+IPZ	1302	18.8	
22	+EPZ	1353	43.2	
22	−EPZ	1409	8.6	
22	+EPZ	1409	13.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
22	+EPZ	1439	26.8	#-698
22	+EPZ	1721	7.0	
22	−EPZ	1721	9.0	
22	+EPZ	1721	12.2	
22	+EPZ	1847	0.6	
22	−EPZ	1847	3.2	
22	+EPZ	2043	37.4	
22	+EPZ	2043	40.8	
22	+EPZ	2252	26.8	
22	−EPZ	2252	29.9	
23	+EPZ	0026	22.6	
23	−EPZ	0026	25.0	
23	+EPZ	0042	2.4	
23	+EPZ	0042	3.3	
23	+EPZ	0307	0.6	
23	+EPZ	0307	3.5	
23	−EPZ	0521	25.2	
23	−EPZ	0521	33.4	
23	−EPZ	0706	17.0	
23	+EPZ	0706	24.0	
23	+EPZ	0738	12.4	
23	+EPZ	0738	16.0	
23	+EPZ	0915	16.0	
23	+EPZ	0915	19.8	
23	+EPZ	0942	18.0	#-699
23	+EPZ	1512	34.0	
23	−IPZ	1512	37.7	
23	+IPZ	1731	17.4	
23	−IPZ	1749	30.0	
23	−EPZ	1817	49.6	
23	+IPZ	1818	1.0	
23	+EPZ	1843	36.0	
23	+IPZ	2120	12.5	#-700
23	−IPcPZ	2120	15.2	#-700
23	−IpPZ	2120	51.0	#-700
23	−IXZ	2122	2.0	#-700
23	+IPZ	2128	24.5	#-701
23	−IPcPZ	2128	27.3	#-701
23	+EpPZ	2129	4.6	#-701
23	+EsPZ	2129	21.0	#-701
23	ESH	2130	37.0	#-701
23	+EPZ	2258	22.8	#-702
23	+IPcPZ	2258	24.0	#-702
24	+IPZ	0118	48.9	#-703
24	+EsPZ	0118	54.7	#-703
24	+EPZ	0202	19.0	#-704
24	−EXZ	0202	21.1	#-704
24	−EPZ	0406	47.3	
24	−IPZ	0406	54.8	
24	−EPZ	0406	58.6	
24	+EPZ	0451	30.0	
24	+EPZ	0451	35.0	
24	−EsPZ	0540	31.4	#-705
24	+EPZ	0545	11.0	
24	+EPKiKPZ	0545	18.6	#-705
24	−EPZ	0602	4.8	
24	−IPZ	0603	19.6	
24	−IPZ	0647	4.3	
24	−IPZ	0647	16.6	
24	−EPKPdfZ	0750	39.4	#-706
24	+EPKPbcX	0750	44.4	#-706
24	+EPZ	0808	3.2	
24	+IPKPdfZ	0808	30.5	#-707
24	+EPKPbcZ	0808	33.6	#-707
24	+EPZ	0911	14.4	#-708
24	+EPZ	1052	41.7	#-709
24	−EpPZ	1052	44.2	#-709
24	+EPZ	1123	15.1	#-710

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
24	−IpPZ	1123	19.4	#-710
24	+EPZ	1138	20.0	
24	+EPZ	1343	7.1	
24	+EPZ	1412	32.2	
24	+EPZ	1412	38.4	
24	+IPZ	1514	54.4	
24	−EPZ	1701	41.4	
24	+EPZ	1701	44.0	
24	−EPZ	1730	48.3	
24	+EPZ	1744	1.8	
24	−EPZ	1744	4.1	
24	+EPZ	1803	15.0	#-711
24	+EsPZ	1803	19.4	#-711
24	+EPZ	1838	3.0	
24	+EPZ	1940	21.0	
24	+IPZ	2328	45.3	
25	+EPZ	0027	5.4	
25	+EPKPdfZ	0038	7.3	#-712
25	+EPKPabZ	0038	17.7	#-712
25	+EPZ	0116	23.2	#-713
25	+EPcPZ	0116	28.9	#-713
25	+EPZ	0158	24.0	#-714
25	+EPcPZ	0158	25.4	#-714
25	+IPZ	0235	27.2	#-715
25	−IpPZ	0235	30.0	#-715
25	−EPZ	0355	16.4	
25	−EXZ	0731	59.0	
25	−EsPZ	0732	14.0	#-716
25	+EPZ	0847	20.2	
25	−IPZ	1045	4.2	#-717
25	−IPcPZ	1045	7.0	#-717
25	−IXZ	1045	30.0	#-717
25	+EPZ	1152	22.6	
25	−EPZ	1408	30.4	
25	−EPZ	1408	34.0	
25	−IPZ	1408	45.0	
25	+EPZ	1457	24.0	
25	−EPZ	1500	48.6	#-718
25	−EXZ	1500	50.2	#-718
25	−EPZ	1543	15.4	
25	−EPZ	1648	2.8	
25	−EPZ	1833	6.6	
25	−EPZ	2312	19.0	
25	−EPZ	2312	20.2	
25	−EPZ	2312	44.2	
26	+EPZ	0052	48.4	
26	+EPZ	0441	21.2	
26	+EPZ	0441	22.6	
26	+EPZ	0626	18.0	
26	+IPZ	0626	45.0	
26	+EPZ	0640	23.0	
26	−IPZ	0640	30.2	
26	+EPZ	0652	24.0	
26	+EPZ	0814	38.4	
26	−EPZ	0824	2.0	
26	+EPZ	0852	0.6	
27	+EXZ	0531	31.6	#-719
27	−EPZ	0913	13.8	#-720
27	−EpPZ	0913	30.0	#-720
27	−EPZ	1115	54.3	#-721
27	−IpPZ	1115	56.7	#-721
27	+EPZ	1744	24.9	
27	+IPZ	1827	14.4	
27	−IPZ	1827	17.0	
27	+EPZ	1842	26.4	
27	+EPZ	2005	20.8	
27	+EPZ	2005	40.6	
27	+EPZ	2040	35.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
27	−EPZ	2040	40.4	
27	−IPKPdfZ	2041	42.0	#-722
27	−EPKiKPZ	2041	47.8	#-722
27	+EPZ	2056	8.6	
27	+IPZ	2056	10.6	
28	−EpPdiffZ	0024	37.9	#-723
28	−EPZ	0033	11.0	
28	+EPZ	0521	27.0	
28	+EPZ	0521	31.0	
28	+EPZ	0521	39.0	
28	+IPZ	0857	45.6	#-724
28	+EPKPdfZ	0917	9.4	#-725
28	−EPKPbcZ	0917	12.6	#-725
28	−EPKiKPZ	0917	14.4	#-725
28	−EPZ	1100	4.8	
28	+EPZ	1146	29.6	
28	−EPZ	1437	6.8	#-726
28	−EPcPZ	1437	13.0	#-726
28	+EsPZ	1437	18.7	#-726
28	+EPZ	1509	8.2	
28	+EPZ	1546	1.4	
28	−EPZ	1546	14.0	
28	−EPKPdfZ	1645	7.4	#-727
28	−EPKPbcZ	1645	11.8	#-727
28	+EpPKPbcZ	1645	24.6	#-727
28	−EpPKPbcZ	1645	30.3	#-727
28	+EPdiffZ	1940	1.2	#-728
28	+EsPdiffZ	1940	7.4	#-728
28	+EPKPdfZ	1943	20.0	#-728
28	−EPZ	1950	36.0	
28	+EPZ	2107	38.3	
28	+EPZ	2150	17.7	
28	−EPZ	2207	15.9	
29	+EPZ	0024	10.0	
29	+EPZ	0104	22.0	
29	−EPZ	0342	45.6	
29	−EPZ	0445	41.7	
29	+EPZ	0547	23.2	
29	+EPZ	1132	38.4	
29	+EPZ	1132	41.4	
29	+EPZ	1138	12.8	#-729
29	−EsPZ	1138	16.0	#-729
29	−IPZ	1452	29.0	#-730
29	−IPZ	1452	31.6	#-730
29	−IpPZ	1452	34.5	#-730
29	+EPZ	2225	22.4	
29	+EPZ	2233	34.4	
29	−EPZ	2353	47.8	
30	+EPPZ	0242	33.0	#-731
30	+EPKiKPZ	0242	36.2	
30	+EPZ	0347	6.5	
30	−EPZ	0435	4.6	
30	+EPZ	0451	0.8	
30	−EPZ	0451	5.4	
30	+EPZ	0541	30.4	
30	−EPZ	0541	33.5	
30	+EPZ	0640	12.4	
30	−EPZ	0640	16.0	
30	−EPZ	0756	29.0	
30	+EPZ	0756	35.3	
30	+EPZ	0948	51.0	
30	+IPZ	0948	56.0	
30	+EPZ	1235	20.0	
30	+EXZ	1451	9.0	#-732
30	+EPZ	1842	10.4	
30	+EpPZ	1848	49.6	#-733
30	+EPZ	1854	9.2	
30	−EPZ	1943	2.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
30	−EPZ	2013	0.4	
30	+EPZ	2043	5.3	
30	+EPZ	2043	16.0	
30	+EPZ	2337	7.4	
30	+EPZ	2337	20.8	
31	+EPZ	0041	0.6	
31	−EPZ	0138	10.6	
31	−EPZ	0255	47.4	#-734
31	−EPZ	0447	22.0	
31	+EPZ	0649	43.0	
31	−EPZ	0950	25.7	
31	+EPZ	1043	23.3	
31	+EPZ	1046	0.2	
31	+EPZ	1139	6.4	
31	−EPZ	1250	24.0	
31	−EPZ	1250	33.0	
31	−EPZ	1319	13.4	#-735
31	−EPcPZ	1319	18.2	#-735
31	−IPZ	1337	27.0	#-736
31	−IPcPZ	1337	34.4	#-736
31	−EsPZ	1338	57.5	#-736
31	+EPZ	1416	33.4	
31	+EPZ	1416	36.2	
31	+EPZ	1458	13.6	#-737
31	+EPZ	1637	19.2	
31	+EPZ	1832	0.4	
31	+EPZ	1832	3.3	
31	+EPZ	2052	28.3	
31	+EPdiffZ	2236	12.0	#-738
31	+EpPdiffZ	2237	30.0	#-738
Jun.1	+EPZ	0026	10.7	
1	+EPZ	0111	36.2	
1	+EPZ	0123	16.2	
1	+IPZ	0146	24.4	#-739
1	−IPcPZ	0146	27.8	#-739
1	ESH	0156	33.0	#-739
1	+EPZ	0208	6.9	
1	+EPZ	0246	21.3	
1	+EPZ	0334	26.7	
1	−EPZ	0407	35.4	
1	+EPZ	0519	0.6	
1	+EPZ	0519	13.4	
1	−EPZ	0535	3.6	
1	−EPZ	0621	34.0	
1	+EPZ	0714	27.3	
1	+EPZ	0731	26.4	#-740
1	−EPZ	0857	31.6	
1	−EPZ	0857	35.0	
1	+EPZ	1003	6.7	
1	+EPZ	1320	14.0	
1	+IPZ	1423	31.0	#-741
1	+EPPZ	1427	18.8	#-741
1	+EPZ	1452	12.4	
1	−EPZ	1554	14.4	
1	+EXZ	1638	49.0	#-742
1	−EsPZ	1702	25.0	#-743
1	+EPZ	1745	52.0	#-744
1	−EPcPZ	1745	53.2	#-744
1	−EPZ	1848	12.9	#-745
1	−EpPZ	1848	18.0	#-745
1	+EPZ	1907	24.8	
1	+EPZ	1907	27.4	
1	−EPZ	1929	7.0	
1	+EPZ	2022	45.0	
1	+EPZ	2022	51.0	
1	+EPZ	2205	44.3	
1	+EPZ	2308	26.4	
2	+EPZ	0007	50.1	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
2	+EPZ	0031	9.0	
2	−EPZ	0105	17.4	
2	−EXZ	0106	45.0	#-746
2	+EPZ	0122	22.6	
2	+EPZ	0158	19.1	
2	+EPZ	0213	24.0	
2	+EPZ	0241	13.4	
2	+EPZ	0352	33.6	
2	+EPZ	0405	38.6	
2	−EXZ	0557	45.8	#-747
2	−EPKiKPZ	0601	31.0	#-747
2	−EXZ	0601	34.6	#-747
2	+EPZ	0742	30.0	
2	+EPZ	0742	46.3	
2	+EPZ	0821	28.0	#-748
2	−EXZ	0821	38.0	#-748
2	+EPZ	0926	8.5	
2	−EPZ	0940	27.4	
2	−EPZ	0950	57.0	#-749
2	+EPcPZ	0951	1.2	#-749
2	−EPZ	1010	5.2	
2	+EPZ	1010	14.0	
2	−EPZ	1055	6.1	
2	+EPZ	1055	8.8	
2	−EPZ	1117	16.7	
2	−EPZ	1208	9.4	
2	+EPZ	1614	2.2	
2	+EPZ	1614	6.0	
2	−EPZ	1614	17.5	
2	+EPZ	1652	28.8	#-750
2	+EPZ	1805	6.8	
2	+EPZ	2021	48.0	#-751
2	+EpPZ	2022	2.0	#-751
2	+EsPZ	2022	6.8	#-751
2	−EPZ	2215	23.0	
2	+EPZ	2344	29.3	#-752
3	−EPZ	0020	6.6	
3	+EPZ	0020	9.1	
3	−EPZ	0220	29.0	
3	+EPZ	0243	21.0	
3	−EPZ	0322	5.0	
3	−EPZ	0337	4.1	
3	−EPZ	0418	0.0	
3	+EPZ	0418	7.2	
3	+EPZ	0418	8.8	
3	−IPZ	0418	10.3	
3	−EPZ	0515	6.4	
3	+EPZ	0546	28.0	
3	+EPZ	0623	40.6	
3	+EPZ	0646	1.7	
3	−EPZ	0720	24.7	
3	+EPZ	0918	20.5	
3	−EPZ	0939	3.0	
3	+EPZ	1129	30.1	
3	+EPZ	1214	11.0	
3	−EPZ	1237	24.0	
3	+EPZ	1237	31.0	
3	+EPZ	1253	4.0	
3	+EPZ	1414	4.0	
3	+EPZ	1517	34.0	
3	+EPZ	1523	24.3	
3	−EPZ	1542	44.0	#-753
3	−EPZ	1632	36.2	
3	+EPZ	1638	7.5	
3	−IPZ	1708	3.0	
3	+EPZ	1708	9.0	
3	−EZ	2005	9.2	
3	+EPZ	2107	19.4	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
4	+EPZ	0014		49.1	
4	−EPKPdfZ	0242		18.3	#-754
4	−EPKiKPZ	0242		25.6	
4	+EpPKPdfZ	0242		36.2	
4	+EPZ	0247		4.1	
4	+IPZ	0512		10.8	#-755
4	+EpPZ	0512		20.8	#-755
4	+EsPZ	0512		24.7	#-755
4	−EPZ	0546		13.8	
4	−IPZ	0652		1.4	#-756
4	+EXZ	0652		22.4	#-756
4	+EPZ	0724		29.2	
4	−EPZ	0725		0.0	
4	+EPZ	0902		18.0	
4	−IPZ	0902		20.2	
4	−EPZ	1119		21.0	
4	+EPZ	1119		26.0	
4	−EXZ	1422		30.4	#-757
4	−EPZ	1423		2.6	
4	+EPZ	1628		35.4	#-758
4	−EPZ	1646		43.7	
4	+EPZ	1813		11.1	
4	+EPZ	1813		14.2	
4	−EPZ	2007		32.3	
4	−EPZ	2007		37.4	
4	−EPZ	2050		22.0	
4	+EPZ	2123		40.2	
4	+EPZ	2227		33.0	
4	+EPZ	2308		36.4	#-759
4	+EPcPZ	2308		39.0	#-759
4	+EPZ	2352		43.4	
4	−EPZ	2352		45.5	
4	−IPZ	2352		49.0	
5	+EPKPdfZ	0102		13.4	#-760
5	+EpPKPdfZ	0102		26.1	#-760
5	−EPZ	0111		17.4	
5	+EPZ	0200		55.2	
5	+EPZ	0212		40.2	
5	+IPZ	0335		0.0	#-761
5	−EPcPZ	0335		4.2	
5	+EPZ	0403		27.2	
5	−EPZ	0403		28.8	
5	−EPZ	0452		11.0	#-762
5	−EPcPZ	0452		14.2	#-762
5	−IXZ	0452		44.6	#-762
5	−EPPZ	0455		27.0	#-762
5	−EXZ	0500		25.4	#-763
5	−IPcPZ	0500		27.4	#-763
5	+IpPZ	0500		46.0	#-763
5	+IPPZ	0504		6.9	#-763
5	ESH	0511		27.0	#-763
5	+EPZ	0616		7.4	
5	+EPZ	0712		42.7	
5	+EPZ	0848		25.0	
5	+EPZ	0848		53.8	
5	+IPZ	0927		38.6	#-764
5	−IPcPZ	0927		40.5	#-764
5	+IpPZ	0928		18.9	#-764
5	−EPZ	0951		42.6	#-765
5	+EpPZ	0951		49.3	#-765
5	+EPZ	1208		4.4	#-766
5	−EPcPZ	1208		6.6	#-766
5	+EPZ	1247		44.6	
5	+EPZ	1308		23.3	
5	+EPZ	1709		2.0	
5	+EPZ	1809		2.0	
5	−EPZ	1900		54.6	
5	+EPZ	2101		24.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
5	+EPZ	23	01	14.0	
6	−EPZ	00	05	14.2	
6	+IPZ	01	07	3.5	
6	−IPZ	01	07	5.2	
6	+EXZ	01	56	26.5	#-767
6	−EPZ	02	17	2.4	
6	−EPZ	03	49	29.0	
6	+EXZ	03	51	29.0	#-768
6	−EPZ	06	50	35.4	
6	+EPZ	06	50	50.2	#-769
6	−EPZ	07	18	2.2	#-770
6	−EPcPZ	07	18	5.0	#-770
6	−EpPZ	08	29	42.0	#-771
6	+EXZ	08	34	29.8	#-772
6	+EPZ	11	23	25.6	
6	+EPZ	12	14	44.4	
6	+EPZ	12	53	4.9	
6	+EPZ	16	52	21.0	
6	+EPZ	16	52	23.4	
6	+EPZ	16	57	27.8	#-773
6	+EPZ	17	46	14.0	
6	+EPZ	18	02	3.0	
6	−EPZ	18	13	17.2	
6	+EPZ	19	09	43.0	
6	+EPZ	19	12	25.0	
6	+EPZ	21	23	19.9	
6	+EPZ	21	31	14.8	#-774
6	−EpPZ	21	31	21.0	#-774
7	+EPZ	03	46	44.1	#-775
7	+EpPZ	03	46	53.2	#-775
7	+EPZ	04	00	7.9	
7	+EPZ	04	45	16.0	
7	+EPZ	05	13	27.0	
7	+EPZ	05	47	3.4	
7	−EPZ	05	47	10.0	
7	+EPZ	06	39	0.6	#-776
7	+EPZ	07	18	15.0	
7	+EPZ	07	49	37.2	
7	+IPZ	08	59	22.0	#-777
7	+EPZ	09	22	0.0	#-778
7	+EPcPZ	09	22	3.6	#-778
7	+EpPZ	09	22	40.4	#-778
7	+EPZ	10	16	7.1	
7	+EPZ	12	03	19.0	
7	+EPZ	12	50	12.2	
7	+IPZ	13	35	34.0	
7	−IPZ	13	36	9.5	
7	EHS	13	45	5.6	
7	+EPZ	14	14	27.0	
7	+EPZ	16	45	43.7	
7	+EPZ	18	21	17.2	
7	+EPZ	19	03	28.8	
7	+EPZ	20	20	26.0	#-779
7	+EpPZ	20	20	27.8	#-779
7	−IsPZ	20	20	28.6	#-779
7	ESH	20	26	20.4	#-779
7	+EPZ	22	48	21.9	
7	−EPZ	23	16	2.5	
8	+EPZ	00	05	45.0	
8	+EPZ	00	05	48.2	
8	−EPZ	00	09	3.0	
8	+EPZ	00	23	10.2	
8	+EPZ	00	50	40.8	#-780
8	+EpPZ	00	50	43.4	#-780
8	+EPcPZ	00	50	54.2	#-780
8	+EPZ	01	15	32.6	
8	−EPdiffZ	02	25	32.8	#-781
8	−EpPdiffZ	02	25	49.4	#-781

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
8	+EPZ	0238	21.6	
8	+EPZ	0252	14.0	
8	−EPZ	0328	41.2	#-782
8	+EPZ	0348	37.0	
8	+EPZ	0634	3.0	
8	−EXZ	0750	40.8	#-783
8	+EPZ	0940	49.2	
8	+EPZ	1151	41.0	#-784
8	+EpPZ	1151	44.6	#-784
8	−EPZ	1206	46.4	
8	+IPZ	1236	24.0	#-785
8	+EXZ	1236	39.4	#-785
8	+EpPZ	1237	5.0	#-785
8	−EXZ	1237	22.8	#-785
8	ESH	1245	44.0	#-785
8	−EPZ	1317	24.0	
8	+EPZ	1402	37.0	
8	+EPZ	1402	39.0	
8	+EPZ	1524	5.4	
8	+EPZ	1621	8.0	
8	+EPZ	1648	28.0	
8	−EPZ	1648	30.0	
8	−EPZ	1654	23.4	
8	+EPZ	1902	29.0	
8	+EPZ	2005	0.6	
8	−EXZ	2047	3.8	#-786
8	+EPZ	2152	19.8	
8	+EPZ	2219	37.4	
8	−EPZ	2241	31.6	
8	−EPZ	2324	7.0	
9	−EPZ	0027	26.5	#-787
9	+EpPZ	0027	35.4	#-787
9	+EsPZ	0027	39.2	#-787
9	+EPnPnZ	0028	16.0	#-787
9	−EPPZ	0028	33.2	#-787
9	+EPcPZ	0030	37.0	#-787
9	+IpPZ	0042	6.4	#-788
9	+IpPZ	0042	9.4	#-788
9	+EPZ	0219	10.0	
9	+EPZ	0219	15.2	
9	+EPZ	0454	15.6	
9	+EPZ	1433	4.4	#-789
9	−IpPZ	1433	6.3	#-789
9	+EPPZ	1435	33.2	#-789
9	+EPZ	1824	6.6	
9	+EPZ	1905	6.1	
9	−EPZ	2122	7.0	
9	+EsPZ	2153	40.0	#-790
9	+EPZ	2228	42.0	
9	−EPZ	2309	16.7	
10	+EPZ	0017	33.1	
10	+EPZ	0110	12.0	
10	+EPZ	0240	15.0	
10	−EPZ	0307	57.6	
10	−EPZ	0410	15.8	
10	−EPZ	0410	19.4	
10	+EPZ	0521	39.3	
10	−EPZ	0546	24.0	
10	−EPZ	0556	29.4	
10	−EPZ	0616	59.1	
10	+EPZ	0617	15.1	
10	−EPZ	0627	30.4	
10	+EPZ	0627	35.0	
10	+EPZ	0639	12.4	
10	*EPZ	0813	6.0	
10	+EPZ	0813	9.5	
10	−EPZ	0838	7.0	
10	+EpPZ	0839	14.8	#-791

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
10	+EPZ	0921	29.8	
10	−EPZ	0921	42.5	
10	−EPZ	1016	20.8	
10	−EPZ	1016	22.3	
10	−EPZ	1205	15.8	#-792
10	+EPZ	1205	33.6	
10	+EPZ	1314	11.0	
10	+EPZ	1421	6.6	
10	+EPZ	1434	13.2	
10	−EXZ	1434	32.0	#-793
10	+EPZ	1509	3.4	
10	+EPZ	1550	45.8	
10	−EPZ	1625	13.8	
10	+EPZ	1817	39.0	
10	+EPZ	1817	44.6	
10	+EPZ	2103	19.4	
10	+EPZ	2120	16.4	
10	−EpPZ	2242	12.6	#-794
10	+EsPZ	2242	19.6	#-794
10	−EPPZ	2245	15.0	#-794
10	−EPZ	2304	2.0	
10	+EPZ	2321	6.8	
11	+EPZ	0122	7.0	
11	−EPZ	0242	23.2	
11	−EPcPZ	0242	39.2	#-795
11	−EPZ	0310	35.6	
11	+EPZ	0642	16.1	
11	+EPZ	0642	20.4	
11	+EPZ	0642	31.0	
11	−EPZ	0712	1.0	
11	−EPZ	0712	3.1	
11	+EPPZ	0921	11.7	
11	−EPZ	0921	19.4	
11	+IPZ	0948	39.2	#-796
11	−IPcPZ	0948	49.2	#-796
11	−EpPZ	0949	5.2	#-796
11	ESH	0958	13.0	#-796
11	+EPcPZ	1143	32.8	#-797
11	+EPZ	1211	36.8	#-798
11	−EPcPZ	1211	40.8	#-798
11	−EPZ	1320	4.8	
11	+EPZ	1334	11.0	
11	+EPZ	1925	26.0	#-799
11	+EPcPZ	1925	30.6	#-799
11	−IpPZ	1925	44.8	#-799
11	−EPZ	2025	46.2	
11	+EPZ	2211	1.2	
11	+EPZ	2211	9.0	
12	−EPZ	0118	32.8	
12	+EPZ	0420	16.5	
12	−EPZ	0753	19.6	
12	+IPZ	1028	34.0	
12	−EPZ	1028	37.5	
12	+EPZ	1350	6.0	
12	+EPZ	1350	7.0	
12	+EPZ	1210	15.0	#-800
12	−EpPZ	1210	20.4	#-800
12	−EsPZ	1210	22.0	#-800
12	−EPZ	1436	58.4	#-801
12	+EPZ	1555	6.3	
12	+EPZ	1628	5.4	
12	−EPZ	1628	13.4	
12	−EPZ	1718	0.2	
12	−EPZ	1744	6.4	
12	+EPZ	2212	1.2	
13	−EPZ	0003	54.0	
13	−EPZ	0031	23.4	
13	+EPZ	0112	11.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
13	+EPZ	0406	6.9	
13	+EPZ	0911	32.0	
13	+EPZ	1002	18.8	
13	+EPZ	1052	19.8	#-802
13	+EXZ	1052	34.0	#-802
13	+EPZ	1306	17.2	
13	+EPZ	1306	18.6	
13	+EPKPdfZ	1343	22.0	#-803
13	+EPZ	1342	6.6	
13	+IPZ	1658	51.0	#-804
13	−IsPZ	1658	58.0	#-804
13	+IPcPZ	1659	9.4	#-804
13	ESH	1708	18.0	#-804
13	−EPZ	1735	20.0	#-805
13	+EPZ	1917	14.2	
13	−EPZ	1944	4.6	
13	+EPZ	2056	23.1	
13	−EPZ	2133	17.4	#-806
13	+EpPZ	2133	41.6	#-806
13	−EPZ	2232	23.0	#-807
13	+EPPZ	2235	48.0	#-807
14	−EPZ	0116	42.6	#-808
14	−EPZ	0420	5.3	
14	−EPZ	1046	26.1	
14	+EPZ	1619	17.1	
14	−EPZ	1747	11.8	
14	+EPZ	2135	36.6	
14	−EPZ	2354	20.5	
15	+EPZ	0017	3.0	
15	+EPZ	0017	9.4	
15	+EPZ	0017	20.0	
15	+EPZ	0053	12.0	
15	−EPZ	0205	44.6	
15	−EPZ	0828	16.6	
15	−EPZ	0828	20.0	
15	−IPZ	1131	43.0	
15	ESH	1140	49.9	
15	+EPZ	1200	8.2	#-809
15	+EPcPZ	1200	10.8	#-809
15	+EPZ	1625	6.0	
15	ESH	1635	35.0	
15	+IPKiKPZ	1753	4.1	#-810
15	+IpPKiKPZ	1753	16.8	#-810
15	+EPZ	1945	15.2	
15	+EPZ	2249	36.7	
15	+EPZ	2354	2.5	
16	−EPZ	0014	14.8	
16	+EPZ	0014	23.6	
16	−EPZ	0014	28.0	
16	−EPZ	0056	23.6	
16	+EPZ	0126	14.8	
16	−EPZ	0212	24.2	
16	+IPZ	0304	9.6	
16	ESH	0302	47.8	
16	−EPZ	0506	6.0	
16	+EPKPdfZ	0537	48.4	#-811
16	−EPKiKPZ	0537	52.0	#-811
16	−EPZ	0638	39.2	#-812
16	+EPZ	0644	5.4	
16	−EPZ	0810	18.6	
16	+EPZ	0811	5.0	
16	+EPZ	0811	43.4	#-813
16	+IPZ	0817	3.8	#-814
16	−EPcPZ	0817	5.6	#-814
16	+EPZ	1038	1.6	
16	−EPZ	1038	7.0	
16	+EPZ	1249	14.0	
16	−EPZ	1320	12.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
16	−EPZ	1320	16.0	
16	+EPZ	1339	52.4	#-815
16	−EpPZ	1339	54.6	#-815
16	−EsPZ	1339	57.2	#-815
16	−EPZ	1352	17.2	
16	−EPZ	1428	19.0	#-816
16	+EpPZ	1428	22.6	#-816
16	+EPZ	1550	4.6	
16	+EPZ	1550	17.4	
16	+EPZ	1604	0.8	
16	−EPZ	1617	46.0	
16	+EPZ	1638	36.2	#-817
16	+EPZ	1817	22.2	
16	+EPZ	1817	24.4	
16	+EPZ	1920	12.4	
16	+EPZ	1920	17.0	
16	+EPZ	2044	25.4	
16	+EPZ	2135	58.0	
16	−IPZ	2136	10.2	
16	+EPZ	2153	8.2	
16	ESH	2203	37.0	
17	+EPZ	0009	29.0	
17	+EPZ	0211	15.0	
17	+EPZ	0211	17.0	
17	−EPZ	0418	5.6	
17	−EPZ	0916	23.8	
17	+IPZ	1128	19.6	#-818
17	−EpPZ	1128	21.8	#-818
17	−EPnPnZ	1129	31.2	#-818
17	+EPZ	1413	30.8	
17	+EPZ	1413	37.6	
17	−EPdiffZ	1527	33.4	#-819
17	+EpPdiffZ	1527	52.6	#-819
17	−EPZ	1702	55.4	
17	−EPZ	1702	57.0	
17	+EPZ	1808	41.4	
17	+EPZ	1808	43.4	
17	+IPZ	1929	27.0	#-820
17	+EPcPZ	1929	36.7	#-820
17	+EPZ	2102	31.7	
17	+EPZ	2102	39.6	
17	+EPZ	2322	2.1	
18	−EPZ	0111	42.0	#-821
18	+EpPZ	0111	46.1	#-821
18	−EPZ	0201	24.0	
18	−EPZ	0201	29.8	
18	+EPZ	0509	12.2	
18	−EPZ	0616	12.4	
18	+EPZ	0815	18.4	
18	+EPZ	0815	20.6	
18	+EPZ	0815	37.4	
18	+EPZ	1001	1.1	
18	+EPZ	1106	11.7	
18	−EPZ	1214	5.8	
18	+EPZ	1238	39.0	#-822
18	+EPZ	1415	7.7	
18	+EPZ	1415	8.6	
18	+EPZ	1422	20.4	#-823
18	+EPZ	1516	23.6	
18	−EPZ	1924	10.6	
18	+EPZ	1924	16.3	
18	+EPZ	2141	24.6	
18	−EPZ	2218	18.4	
18	−IPZ	2321	11.8	
19	+EPZ	0110	22.8	
19	−EPZ	0310	0.7	
19	−EPZ	0310	7.0	
19	+EXZ	0452	40.2	#-824

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
19	+EPZ	0517	35.3	#-825
19	+EXZ	0519	26.5	#-825
19	−EPZ	0613	0.0	
19	−EPZ	0613	14.0	
19	−EPZ	0705	55.4	#-826
19	−EPZ	0912	27.0	
19	−EPZ	0952	14.8	#-827
19	+EPcPZ	0952	16.8	#-827
19	−EPZ	1020	35.0	
19	+EPZ	1223	54.0	
19	+EPZ	1223	58.4	
19	−EPZ	1252	20.0	
19	−EsPZ	1253	17.6	#-828
19	−EPZ	1503	15.7	
19	+EpPZ	1552	5.6	#-829
19	−EPZ	1819	46.3	
19	−EPZ	2115	38.4	
19	+EPZ	2139	48.6	#-830
19	−EpPZ	2140	12.0	#-830
20	−EPZ	0028	30.5	
20	+EPZ	0048	45.0	
20	+EPZ	0048	49.2	
20	−EPdiffZ	0205	45.8	#-831
20	+EsPdiffZ	0206	6.8	#-831
20	−EPZ	0714	18.7	
20	−EPZ	1224	48.3	
20	−EPZ	1224	51.9	
20	+EPZ	1711	7.6	
20	+EPZ	1711	10.6	
20	+EPcPZ	1227	27.1	#-832
20	+EpPZ	1227	50.1	#-832
20	−EPZ	2249	29.0	
20	+EPZ	2310	20.1	
21	+EPZ	0016	30.2	
21	+EPZ	0018	28.6	
21	−EPZ	0339	22.0	
21	−EPZ	0704	6.2	
21	−EPZ	1103	18.2	
21	−EXZ	1422	10.8	#-833
21	+EPZ	1715	13.8	
21	−EPZ	1715	16.0	
21	−EPZ	1715	21.9	
21	−EPZ	2006	39.8	
21	+EPZ	2128	12.6	
21	+EPZ	2222	25.6	
21	+EPZ	2343	10.0	
21	+EPZ	2343	14.8	
21	+EPZ	2343	20.1	
22	−EPZ	0554	29.6	#-834
22	−IpPZ	0554	33.2	#-834
22	+EsPZ	0554	35.2	#-834
22	−IPcPZ	0554	39.4	#-834
22	−EPZ	0602	45.4	
22	−EPZ	0602	50.6	
22	+EPZ	0911	23.6	
22	+EPZ	1006	6.6	
22	−EPZ	1218	18.2	
22	−EPZ	1218	23.6	
22	+EPZ	1218	31.7	
22	−EPZ	2018	38.3	
22	+EPZ	2150	22.1	#-835
22	−EPcPZ	2150	24.0	#-835
23	+EPZ	1207	30.9	
23	+IPZ	1229	31.0	
23	−EPZ	1307	10.4	
23	−EPZ	1307	43.6	
23	−EPZ	1532	21.8	#-836
23	−EPZ	1639	36.8	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
23	+EPZ	17	18	25.4	
23	+EPZ	19	48	49.3	
23	+EPZ	20	09	16.4	
23	+EpPdiffZ	20	15	15.0	#-837
23	−EPZ	20	44	43.4	
23	+EPZ	20	44	50.5	
24	+EXZ	04	32	0.4	#-838
24	+EPKPbcZ	04	32	4.6	#-838
24	+EPKiKPZ	04	32	7.4	#-838
24	−EXZ	05	04	25.0	#-839
24	−IPZ	08	14	41.0	
24	−EPZ	08	14	46.8	
24	−EpPZ	08	25	51.2	#-840
24	+EPZ	10	08	39.0	
24	−EPZ	10	08	46.6	
24	−EPZ	10	08	56.2	
24	+EPZ	11	18	41.0	
24	+EPZ	13	03	8.8	
24	−EPZ	13	03	11.1	
24	−EPZ	13	37	15.0	
24	+EPZ	14	32	24.4	
24	+EPZ	18	50	4.8	
24	+EPZ	18	50	11.0	
24	−EPZ	22	17	44.2	
25	+EPZ	03	22	45.2	
25	+EPZ	04	33	21.8	
25	−EPcPZ	06	53	29.0	#-841
25	−EPZ	07	01	8.0	
25	+EPZ	10	04	44.0	#-842
25	−EPcPZ	10	04	47.0	#-842
25	+EPZ	12	21	17.2	
25	+EPZ	15	10	32.6	
25	+EPZ	22	14	38.0	
26	+EPZ	00	17	5.0	
26	−EPZ	00	17	10.4	
26	−EPZ	02	14	29.8	
26	+EPZ	06	01	23.8	#-843
26	+EPcPZ	06	01	26.8	#-843
26	+EpPZ	06	01	34.3	#-843
26	+EPZ	15	53	5.0	#-844
26	+EPcPZ	15	53	8.0	#-844
26	+EPZ	22	33	8.8	
26	−EPZ	22	33	13.4	
26	−IPZ	23	11	47.5	#-845
26	−IPcPZ	23	11	49.4	#-845
26	−IsPZ	23	12	7.0	#-845
27	−EPZ	08	50	53.8	
27	−IPZ	08	50	56.2	
27	+IPZ	08	51	2.6	
27	ESH	09	01	34.0	
27	+EPZ	10	52	27.8	
27	−EPZ	14	17	4.0	
27	+IPZ	16	01	2.9	
27	−IPZ	16	01	5.0	
27	−IPZ	16	01	8.8	
27	−EPZ	19	17	18.7	
27	+EPZ	19	17	20.0	
27	+EPZ	21	20	19.0	
27	+EPZ	21	20	22.4	
27	+EPZ	21	25	46.8	
27	+EPZ	23	34	14.0	#-846
28	+EPZ	00	36	23.0	
28	+EPZ	01	14	5.2	
28	+EXZ	02	19	17.0	#-847
28	+EPZ	02	59	16.9	
28	−EPZ	04	08	33.4	
28	−EPZ	04	08	38.4	
28	+EPZ	05	04	50.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
28	−EPcPZ	0757	45.2	#-848
28	−EPcPZ	0757	51.6	#-848
28	−EPZ	0842	33.5	
28	+EPZ	1548	31.0	#-849
28	−EPcPZ	1548	32.7	#-849
28	−EPZ	1811	8.0	
28	+EPZ	2020	38.3	
28	−EPZ	2020	40.0	
28	+EPZ	2224	17.6	
29	+EXZ	0224	10.0	#-850
29	+IPZ	0224	24.0	
29	+EPZ	0224	28.6	
29	+EPZ	0503	16.0	
29	−EPZ	0647	39.2	#-851
29	−EPcPZ	0647	40.8	#-851
29	−EXZ	0648	14.2	#-851
29	+EPZ	1032	10.6	
29	+EPZ	1032	12.6	
29	+EPZ	1202	23.4	
29	−EPZ	1214	7.3	
29	−IPZ	1242	0.2	#-852
29	+IPcPZ	1242	4.2	#-852
29	+EpPZ	1242	29.4	#-852
29	+EPZ	1309	17.2	
29	+EPZ	1309	39.6	
29	−EPZ	1547	14.2	
29	−EPZ	1547	20.2	
29	−EXZ	1701	9.2	#-853
29	−EPZ	1821	17.0	
29	+EPZ	1821	19.6	
29	−EPZ	1917	1.7	#-854
29	+IXZ	1917	4.2	#-854
30	+EPZ	0313	47.0	
30	−EPZ	0411	36.9	
30	+EPZ	0513	44.8	
30	+EPZ	0514	6.0	#-855
30	−EpPdiffZ	0514	10.2	#-855
30	−EPZ	0912	29.8	
30	+EPZ	1006	22.0	#-856
30	+EPZ	1608	30.7	
30	+EPZ	1608	37.1	
30	+EPZ	1651	43.4	#-857
30	−EpPZ	1651	57.2	#-857
30	+EPZ	2137	8.8	
30	−EPZ	2137	20.0	
30	−EPZ	2344	40.0	
Jul.1	+EPZ	0042	24.6	
1	+EPZ	0042	27.1	
1	+EPZ	0423	17.9	
1	+EPZ	0515	18.0	
1	−EPZ	0726	32.1	
1	+IPZ	0726	35.4	
1	−EPZ	0814	36.0	
1	−EsPZ	0853	45.3	#-858
1	+EPnPnZ	0854	47.8	#-858
1	−EPZ	0924	38.2	
1	−EPZ	1343	4.2	
1	+EPZ	1343	6.8	
1	+EPZ	1607	34.6	
1	−EPZ	2307	44.0	
2	+EPZ	0327	7.0	
2	−EPZ	0327	8.9	
2	+EPZ	0327	10.1	
2	−EPZ	0450	6.3	
2	+EPZ	0450	10.4	
2	−IPZ	0749	28.4	
2	−IPZ	0749	31.6	
2	−EPZ	0853	21.5	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
2	−EPZ	0951	43.2	#-859
2	−IPcpZ	0951	44.0	#-859
2	+EpPZ	0951	58.2	#-859
2	+EPZ	1113	5.0	
2	+EsPZ	1132	10.2	#-860
2	+EPZ	1218	26.6	#-861
2	+EPZ	1313	38.0	
2	+EPZ	1344	33.4	#-862
2	−IpPZ	1344	37.2	#-862
2	−EsPZ	1344	39.9	#-862
2	+IPZ	1408	5.4	#-863
2	−IPcPZ	1408	10.6	#-863
2	+EpPZ	1408	16.0	#-863
2	+EsPZ	1408	20.4	#-863
2	+EXZ	1422	16.0	#-864
2	+EPZ	1549	9.4	#-865
2	−EPcPZ	1549	15.0	#-865
2	+EPZ	1812	16.2	
2	+EPZ	1851	4.2	#-866
2	−IpPZ	1851	6.4	#-866
2	−IPcPZ	1851	21.5	#-866
2	−EPZ	1914	18.7	
2	+EPZ	1914	21.0	
2	−IPZ	2016	5.0	
2	−IPZ	2016	26.2	
2	+IPZ	2016	50.7	
2	ESH	2025	19.0	
2	−EPZ	2314	12.6	
2	+EPZ	2314	16.0	
3	+EPZ	0046	23.6	
3	+EPZ	0339	14.0	
3	−EPZ	0613	27.1	
3	+EPKiKPZ	0722	17.9	#-867
3	−EXZ	0722	39.3	#-867
3	+EPZ	0809	33.9	
3	+EPZ	1015	30.0	
3	+EPZ	1015	33.0	
3	−EPZ	1015	36.4	
3	+EPcPZ	1052	44.5	#-868
3	−EPZ	1125	43.2	#-869
3	−EPcPZ	1125	43.9	#-869
3	+EpPZ	1127	34.3	#-869
3	+EPZ	1318	31.0	
3	+EPZ	1318	36.0	
3	−EPZ	1420	50.0	
3	+EPZ	1420	55.7	
3	−EPZ	1421	0.8	
3	+EPZ	1435	59.0	
3	−EPZ	1437	0.4	
3	+EPPZ	1527	23.3	#-870
3	+IPZ	1520	45.8	#-871
3	−IPcPZ	1520	57.0	#-871
3	+EpPZ	1521	4.2	#-871
3	−EsPZ	1521	12.0	#-871
3	−EPZ	1611	17.0	
3	+IPZ	1933	1.4	
3	−EPZ	1933	7.5	
3	+IPZ	1933	31.2	
3	+EPZ	1951	16.0	#-872
3	−IPZ	2024	48.0	#-873
3	+IPcPZ	2025	1.5	#-873
3	+IPZ	2022	27.0	#-874
3	−IXZ	2022	52.6	#-874
3	+IpPZ	2023	1.4	#-874
3	+EPZ	2233	34.3	#-875
3	+EpPZ	2233	37.0	#-875
4	−EPZ	0104	0.8	
4	−EPZ	0104	5.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
4	−EPcPZ	0429	17.9	#-876
4	+EPZ	0429	30.4	
4	+EPZ	0635	29.6	
4	−EPZ	0635	32.3	
4	−EPZ	0901	18.2	
4	+IPZ	1127	31.0	#-877
4	−EPcPZ	1127	32.6	#-877
4	−EPZ	1728	31.0	
4	+EPZ	1728	36.4	
4	+EPZ	1728	44.6	
4	−IPZ	1729	2.2	
4	−EPZ	1920	15.3	
4	+EPZ	2055	30.5	
5	−EPZ	0052	59.0	#-878
5	+EPcPZ	0053	9.6	#-878
5	+EXZ	0053	22.0	#-878
5	−EPZ	0608	26.0	
5	+EPZ	0951	50.7	#-879
5	−EPcPZ	0952	4.3	
5	+EXZ	1404	26.0	#-880
5	−EPZ	1500	25.9	
5	+EPZ	1500	40.6	
5	+EPZ	1701	35.3	
5	+EPZ	1701	38.0	
5	+EPZ	1701	40.6	
5	−EPZ	1706	24.8	
5	−EPZ	1718	5.3	
5	+EPZ	1718	6.6	
5	+EPZ	1718	16.0	
5	+EPZ	1811	39.0	
5	+EPZ	1811	40.4	
5	+EPZ	1926	2.0	
5	+EPZ	2201	22.4	
5	+EPZ	2201	35.0	
5	+EPZ	1958	26.8	
5	−EPZ	2145	21.0	
6	+EPZ	0125	32.0	
6	−EPZ	0125	36.0	
6	−EPZ	0125	38.0	
6	+EPZ	0207	36.0	
6	−EPZ	0207	47.8	
6	+EXZ	0215	9.2	#-881
6	+EPZ	0224	27.0	
6	−IPZ	0224	33.0	
6	−EPZ	0356	34.6	
6	+EPZ	0417	27.0	
6	+EPZ	0418	34.0	
6	+EPZ	0516	55.0	#-882
6	−EpPZ	0517	4.2	#-882
6	+EsPZ	0517	7.8	#-882
6	+EPZ	0654	49.4	
6	−EPZ	0716	52.4	#-883
6	−EPcPZ	0717	4.8	#-883
6	+EPZ	0920	4.0	
6	+EPZ	1028	15.0	
6	+EPZ	1715	40.1	
6	−EPZ	1810	30.4	
6	+EPZ	1834	11.0	
6	−EPZ	1834	17.4	
6	+EPZ	1919	36.0	
6	−EPZ	1919	41.0	
6	+EPZ	1919	45.0	
6	+IPZ	1952	21.4	#-884
6	+IPcPZ	1952	28.0	#-884
6	+EPZ	2049	45.8	#-885
6	+EsPZ	2049	53.0	#-885
6	+EPPZ	2052	44.4	#-885
7	+EPZ	0215	1.1	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
7	+EPZ	0231		33.0	
7	+EPZ	0356		22.3	
7	−EPZ	0356		30.0	
7	+EPZ	0446		53.4	
7	−EPZ	0543		18.7	
7	+EPZ	0629		7.4	#-886
7	+EXZ	0629		15.4	#-886
7	+EPZ	0759		56.0	
7	−EPZ	1506		38.6	
7	−IPZ	2043		4.2	
8	+EXZ	0225		19.0	#-887
8	+EXZ	0225		30.2	#-887
8	−EpPZ	0225		37.0	#-887
8	ESH	0234		54.6	#-887
8	+EPZ	0311		17.9	
8	+EPZ	0420		19.0	
8	+EPZ	0422		23.9	#-888
8	+EPZ	0504		24.0	
8	+EPZ	0614		18.4	
8	+EPZ	0614		21.7	
8	+EPZ	1109		19.0	
8	+EPZ	1109		24.0	
8	+EPZ	1109		26.8	
8	−EPZ	1533		36.2	
8	+EPcPZ	1543		10.0	#-889
8	+EPZ	2313		0.6	
8	+EPZ	2313		22.2	
9	+EPZ	0015		13.4	
9	+EPZ	0951		44.8	
9	+EPZ	1006		31.0	
9	−EPZ	1227		27.0	
9	−EPZ	1227		30.4	
9	−EPZ	1227		42.6	
9	+EXZ	1403		32.4	#-890
9	−EpPKiKPZ	1407		50.3	#-890
9	+EPZ	1556		9.3	#-891
9	+EPZ	1628		23.0	#-892
9	−EPcPZ	1628		25.4	#-892
9	+EpPZ	1628		32.9	#-892
9	−EPZ	1716		5.0	#-893
9	−EpPZ	1716		11.2	#-893
9	+EPcPZ	1716		18.0	#-893
9	+EPZ	1726		39.0	
9	+EPZ	1728		7.2	
9	+EXZ	1734		46.0	#-894
9	+EPZ	1815		9.4	#-895
9	−IpPZ	1815		13.0	#-895
9	+EPZ	1834		9.0	#-896
9	−EXZ	1834		17.8	#-896
9	−EXZ	1900		39.3	#-897
9	+EPZ	2009		22.0	#-898
9	+EPZ	2045		11.6	
9	+EPZ	2045		13.5	
9	+EPZ	2045		16.0	
9	+IPZ	2103		36.6	#-899
9	−IPcPZ	2103		42.0	#-899
9	+EpPZ	2104		3.0	#-899
9	+EPZ	2217		23.0	
9	−EPZ	2328		23.0	
9	−EPZ	2328		27.4	
9	+EPZ	2328		33.2	
9	+EPZ	2336		51.6	#-900
9	+EPcPZ	2336		57.6	#-900
10	+EPZ	0002		57.2	#-901
10	−IsPZ	0003		0.1	#-901
10	+EPZ	0133		5.3	
10	+EPZ	0133		15.3	
10	+EPZ	0305		49.0	#-902

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
10	−EpPKiKPZ	0541	41.6	#-903
10	−EPZ	0611	0.4	
10	+EPZ	0611	6.0	
10	+EPZ	0701	41.0	
10	+EPZ	0723	47.0	
10	+IPZ	0941	15.5	#-904
10	−IpPZ	0941	17.1	#-904
10	−EPZ	1016	19.0	
10	−EPZ	1204	23.4	
10	+EPZ	1328	20.6	
10	−EPZ	1437	33.4	#-905
10	+EpPZ	1437	37.0	#-905
10	+IsPZ	1437	40.4	#-905
10	+EPZ	1444	2.4	#-906
10	+IPcPZ	1444	9.2	#-906
10	−EPZ	1455	55.4	#-907
10	+EpPZ	1455	59.0	#-907
10	+EPZ	1831	17.8	
10	+EPZ	1925	3.6	
10	+EPZ	2111	33.9	
10	+EPZ	2144	30.3	
10	−IPZ	2144	32.8	
10	−IPZ	2144	37.0	
10	+EPZ	2312	55.0	
10	+EPZ	2312	58.2	
10	+EPZ	2353	18.9	
10	+EPZ	2353	31.2	
11	+EPZ	0117	40.8	
11	−EPZ	0117	43.0	
11	+EPZ	0217	45.0	#-908
11	−EPZ	0527	48.8	
11	−EPZ	0925	19.0	
11	+EPZ	0925	21.5	
11	+EpPZ	0958	37.4	#-909
11	+EPZ	1015	10.0	
11	−EPZ	1015	13.8	
11	+EPZ	1112	16.0	
11	+EPZ	1349	42.0	#-910
11	+EpPZ	1500	6.2	#-911
11	+EsPZ	1500	9.9	#-911
11	+EPZ	1725	38.4	
11	−EPZ	1942	5.2	
11	+EPZ	2047	40.0	
11	+EPZ	2205	11.0	
11	+EPZ	2228	8.6	
11	+EPZ	2305	9.8	
12	+EPZ	0011	34.7	
12	−EPZ	0216	0.0	
12	−EPZ	0305	15.0	#-912
12	−EPcPZ	0305	24.6	#-912
12	+EPZ	0454	27.0	
12	+EPZ	0709	14.0	
12	+EPZ	0709	17.0	
12	+EXZ	0737	23.0	#-913
12	−EPZ	0854	25.6	#-914
12	−EPZ	0854	42.0	
12	+EPcPZ	1940	20.0	#-915
12	−EPKPdfZ	2019	56.2	#-916
12	−EXZ	2021	10.0	#-916
12	+EPZ	2028	12.0	
12	+EPZ	2044	41.3	#-917
12	−EPZ	2245	1.0	
12	+EPZ	2245	5.1	
12	+EPZ	2245	13.8	
13	+EXZ	0015	37.0	#-918
13	+EPZ	0405	2.9	
13	+EPZ	0551	29.0	
13	−EPZ	0612	15.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
13	+EPZ	0654	19.0	
13	+EPZ	0654	26.0	
13	−EPZ	0723	34.0	
13	+EPZ	0744	18.8	
13	+EPZ	0754	13.0	
13	+EPZ	0754	20.4	
13	+EPZ	1115	44.0	
13	−EPZ	1150	46.0	#-919
13	+EPcPZ	1150	51.0	#-919
13	+EPZ	1250	27.0	#-920
13	+EPZ	1250	32.6	
13	+EPZ	1313	40.0	
13	+EPZ	1506	25.0	
13	−EPZ	1624	20.2	
13	+EPZ	1624	24.0	
13	+EPZ	1739	44.2	
13	+EPZ	1839	22.4	
13	+EPZ	1908	35.3	
13	−EPZ	2005	44.8	
13	−EPZ	2006	0.8	
13	−EPZ	2147	25.4	#-921
13	+IpPZ	2147	28.0	#-921
13	+EPcPZ	2147	46.7	#-921
13	−EPZ	2222	17.2	
13	+EPZ	2222	26.0	
13	+EPZ	2345	22.0	
14	−EPZ	0107	24.8	#-922
14	+EPcPZ	0107	26.0	#-922
14	+EpPZ	0107	34.0	#-922
14	+EPZ	0408	49.2	
14	+EPZ	0408	53.4	
14	+EPZ	0632	13.4	
14	+EPZ	0632	19.0	
14	+EPZ	0704	34.0	
14	−EPZ	1105	39.8	
14	+EPZ	1307	15.2	
14	−EPZ	1441	24.6	
14	−EPZ	1441	31.4	
14	+EPZ	1452	9.4	
14	+EPZ	1527	15.0	
14	−EPZ	1602	15.6	
14	−EPZ	2011	20.7	
14	−EPZ	2122	14.0	
15	−EPZ	0534	21.4	
15	+EPZ	0534	31.6	
15	+EPdiffZ	0642	35.0	#-923
15	−EPZ	0759	28.0	#-924
15	−EpPZ	0759	34.2	#-924
15	+EPZ	0916	5.8	
15	+EPZ	0916	8.4	
15	+EPZ	1107	32.6	
15	−IPZ	1409	21.0	
15	+EPZ	1608	28.0	
15	+EPKPdfZ	1502	30.0	#-925
15	−EPKPabZ	1502	35.4	#-925
15	+EPZ	1645	19.0	
15	+EPZ	1645	25.0	
15	−IPZ	1817	0.0	
15	+IPZ	1817	2.8	
15	+EPZ	1904	6.0	
15	+EPZ	1904	9.1	
15	−EPZ	2107	30.3	
15	−EPZ	2248	25.6	#-926
15	+IpPZ	2249	0.0	#-926
15	+EPZ	2309	14.0	
16	+EPZ	0006	7.0	
16	+EPZ	0006	9.4	
16	−EPZ	0006	16.2	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
16	+EPZ	0021		1.0	
16	+EPZ	0320		42.0	
16	+EPZ	0320		44.1	
16	−EPZ	0740		41.8	
16	+EPZ	0823		31.0	
16	−IXZ	0848		12.0	#-927
16	+EpPZ	0848		28.6	#-927
16	+IPZ	0949		0.4	
16	−EPZ	0949		13.4	
16	−IPZ	0956		12.6	
16	−IPZ	0956		21.8	
16	+EPZ	1031		57.0	
16	+EPZ	1245		49.6	
16	+EPZ	1342		45.6	#-928
16	+EPKPdfZ	1428		39.2	#-929
16	−IPKiKPZ	1428		40.8	#-929
16	+EPZ	1718		1.0	
16	+EPZ	1718		13.0	
16	−EPZ	1901		7.0	
16	+EpPZ	1949		3.6	#-930
16	−IsPZ	1949		5.0	#-930
16	−IPnPnZ	1950		20.0	#-930
16	+IPPZ	1950		22.0	#-930
16	+EPZ	2010		1.0	
16	−IPZ	2010		8.0	
16	+EPZ	2113		15.4	
16	+EPZ	2214		2.2	
16	+EPZ	2214		3.1	
16	+EPZ	2310		59.0	#-931
16	−EpPZ	2311		6.7	#-931
16	+IsPZ	2311		9.0	#-931
16	−EXZ	2353		41.0	#-932
16	−EPcPZ	2353		46.8	#-932
17	+EPZ	0202		19.4	
17	−EPZ	0219		27.0	
17	+EPZ	0219		35.0	
17	−EPZ	0250		6.0	
17	+IPZ	0250		28.0	
17	+EPZ	0300		41.3	
17	−EPZ	0510		9.8	
17	−EPZ	0510		9.8	
17	−EPZ	0611		34.4	
17	+EPZ	0750		39.4	
17	−EPZ	0750		40.0	
17	+EPZ	0916		32.0	
17	+EPZ	1106		41.8	
17	−EPZ	1241		1.0	
17	+EPZ	1540		8.5	#-933
17	+EPZ	1802		50.8	
17	+EPZ	1909		35.9	
17	+EPZ	1958		23.2	#-934
17	+EPZ	2035		28.0	
17	+EPZ	2035		30.0	
17	+EPZ	2235		34.0	
17	+EPZ	2312		47.3	
18	−IPZ	1012		11.6	#-935
18	+EPKiKPZ	1017		18.0	#-935
18	−EPZ	1126		17.2	
18	−EPZ	1212		18.6	
18	+EPZ	1212		26.5	
18	−EPZ	1322		3.2	
18	+IPZ	1555		4.0	#-936
18	−EPcPZ	1555		14.0	#-936
18	+EPZ	1628		41.6	
18	+EPZ	1628		44.1	
18	−IPZ	2112		4.0	
18	+EPZ	2112		4.1	
18	−EPZ	2117		14.0	#-937

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
18	+IpPZ	2117	19.0	#-937
19	+EXZ	0003	23.3	#-938
19	−EPZ	0004	2.2	
19	−EPZ	0155	6.6	
19	+EPZ	0233	21.1	#-939
19	−IPcPZ	0233	24.5	#-939
19	−IXZ	0233	28.0	#-939
19	−EPZ	0331	49.8	#-940
19	+EPZ	0533	16.6	#-941
19	−EXZ	0741	40.0	#-942
19	+EPZ	0828	13.0	
19	−IPZ	0828	16.0	
19	−IPZ	0828	19.6	
19	+EPZ	0939	1.4	
19	+EPZ	1015	6.0	
19	+EPZ	1015	9.6	
19	+EPZ	1152	34.0	
19	−IPZ	1152	55.0	
19	+EPZ	1152	37.6	
19	+EPZ	1216	12.7	
19	+EPZ	1411	27.4	
19	+EPZ	1440	20.0	
19	+EPZ	1506	54.3	
19	+EPZ	1607	4.8	
19	−EPdiffZ	1655	12.0	#-943
19	−EPZ	1701	4.2	
19	−EPZ	1701	8.0	
19	+EPZ	1733	24.4	
19	+EPZ	1820	24.0	
19	−EPZ	1850	48.7	
19	+EPZ	1948	43.6	#-944
19	+EpPZ	1948	55.0	#-944
19	+EPZ	2308	15.4	
20	−EPZ	0102	6.8	
20	−EPZ	0119	34.8	
20	+EPZ	0318	0.2	
20	+EPZ	0318	2.6	
20	+EPZ	0443	40.4	
20	+IXZ	0625	24.0	#-945
20	+EpPKPdfZ	0625	32.0	#-945
20	−EPZ	0945	2.0	
20	+EPZ	1214	20.4	#-946
20	−EpPZ	1214	32.0	
20	+EPZ	1408	31.0	
20	−EPZ	1503	8.4	
20	+EPZ	1623	36.0	
20	+EPZ	1625	0.6	
20	+EPZ	1636	41.4	
20	−EPZ	1927	45.9	#-947
20	−EpPZ	1927	48.6	#-947
20	−EPZ	2131	10.1	
20	−EPZ	2305	51.9	#-948
20	−EpPZ	2305	55.4	#-948
21	−IPZ	0520	7.4	
21	−IPZ	0520	34.4	
21	ESH	0530	5.0	
21	−EPZ	0612	10.0	
21	−EPZ	0612	12.0	
21	+EPZ	0703	41.0	
21	+EPZ	0703	45.5	
21	−EPZ	0710	43.2	
21	−IXZ	1004	5.4	#-949
21	+EPZ	1020	30.0	
21	+EpPZ	1249	48.2	#-950
21	+EPcPZ	1250	16.6	#-950
21	+EPZ	1313	13.0	#-951
21	+EPcPZ	1313	15.6	#-951
21	−EpPZ	1313	24.1	#-951

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
21	+EPZ	1503	6.8	#-952
21	−EPcPZ	1503	13.0	#-952
21	−EpPZ	1525	51.4	#-953
21	−EsPZ	1525	53.8	#-953
21	−EPcPZ	1526	21.0	#-953
21	+EpPZ	1532	54.0	#-954
21	+EXZ	1533	19.0	#-954
21	+EPZ	1628	30.0	
21	−EPZ	1656	7.0	
21	+EPZ	1656	9.4	
21	−EPZ	1656	17.2	
21	+EPZ	1656	33.0	
21	+EPZ	1658	0.8	#-955
21	−EPcPZ	1658	3.8	#-955
21	+IPZ	1800	38.4	
21	−IPZ	1800	39.6	
21	−EPZ	1800	43.2	
21	+EPZ	1815	17.5	
21	+EPZ	2001	44.8	
21	+EPZ	2001	50.1	
21	+EPKiKPZ	2037	15.0	#-956
21	+EPZ	2258	0.7	#-957
21	−EXZ	2258	30.0	#-957
22	+IPZ	0004	32.3	
22	−IPZ	0012	15.1	#-958
22	+EXZ	0012	25.0	#-958
22	+EPPZ	0013	37.5	#-958
22	+EPKPdfZ	0131	13.0	#-959
22	−EpPKPdfZ	0131	18.0	#-959
22	+EPZ	0319	49.6	
22	+EPZ	0319	51.0	
22	+EPZ	0319	54.4	
22	+EPZ	0519	28.0	
22	+EPZ	0612	8.2	
22	−IPZ	0706	47.2	#-960
22	−IpPZ	0706	50.0	#-960
22	−EPZ	1239	46.4	#-961
22	−EPZ	1240	2.4	
22	−EPZ	1406	6.6	#-962
22	−IsPZ	1406	8.0	#-962
22	+EPcPZ	1406	25.0	#-962
22	−EPZ	1527	15.2	
22	−EPZ	1527	28.0	
22	+EPZ	1928	29.0	
22	−EPZ	2227	2.6	#-963
22	+IpPZ	2227	5.0	#-963
22	+EPcPZ	2227	14.6	#-963
22	−EPZ	2230	58.0	#-964
22	+EpPZ	2231	1.0	#-964
22	−EPZ	2251	1.0	
22	+EsPZ	2303	2.6	#-965
22	+EPZ	2320	26.7	#-966
22	−EPZ	2320	36.0	
23	−EXZ	0236	22.2	#-967
23	+EXZ	0237	23.0	#-967
23	+EXZ	0321	15.5	#-968
23	+EPZ	0332	26.4	#-969
23	+EPcPZ	0332	31.8	#-969
23	+EPZ	0622	11.0	
23	+EPZ	0753	39.0	
23	−EPZ	0753	43.2	
23	+EPZ	0753	49.4	
23	+EPZ	0824	31.0	#-970
23	−EPcPZ	0824	35.4	#-970
23	−EPZ	1215	2.0	
23	+EPZ	1418	15.0	
23	+EPZ	1739	13.4	#-971
23	−EPcPZ	1739	21.6	#-971

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
23	+EPZ	18	21	24.4	
23	−EPZ	19	28	8.0	
23	+EPZ	19	28	11.9	
23	−EXZ	19	47	41.6	#-972
23	−EPZ	22	01	36.0	
23	−EPZ	22	45	32.8	
24	+EPZ	00	13	12.1	
24	+EPZ	00	43	18.2	#-973
24	−EPcPZ	00	43	21.9	#-973
24	−EpPZ	00	43	30.9	#-973
24	+IsPZ	00	43	34.0	#-973
24	−IPZ	03	14	46.0	
24	−IPZ	03	14	52.4	
24	ESH	03	54	55.6	
24	+EPZ	13	41	50.0	#-974
24	+EsPZ	13	42	1.4	#-974
24	−EPKPdfZ	14	19	6.8	#-975
24	−IPKPbcZ	14	19	16.1	#-975
24	−IsPKPdfZ	14	19	30.6	#-975
24	+EsPKPbcZ	14	19	44.0	#-975
24	+EPZ	16	33	38.0	#-976
24	−EPcPZ	16	33	43.6	#-976
24	−EPZ	17	06	16.6	#-977
25	+EPZ	01	10	50.0	
25	−EPZ	02	19	43.1	#-978
25	−EPcPZ	02	29	48.0	#-978
25	+EPZ	04	07	0.4	
25	+EPZ	04	07	5.0	
25	+EPZ	04	40	30.0	
25	−IPZ	13	37	29.0	#-979
25	−EPcPZ	13	37	35.0	#-979
25	+EPZ	15	10	44.0	
25	+EPZ	18	34	15.9	
25	−EPZ	20	29	59.0	
25	−IPZ	20	30	14.7	
26	+EPZ	02	41	19.0	
26	+EPZ	05	04	28.2	
26	+EPZ	07	19	49.0	
26	+IPZ	07	19	52.2	
26	−EPZ	08	15	3.0	
26	+EPKPdfZ	08	51	13.4	#-980
26	−EPKPbcZ	08	51	16.8	#-980
26	+EXZ	13	21	46.0	#-981
26	−EXZ	14	48	13.6	#-982
26	+EPZ	16	31	6.2	
26	−EPZ	17	20	2.4	
26	−EPZ	19	19	58.2	#-983
26	+IPcPZ	19	20	1.0	#-983
26	+EPZ	20	03	4.6	
26	−EPZ	21	38	57.6	
26	−IPZ	21	39	3.0	
27	+EPZ	01	38	31.0	
27	+EPZ	02	19	51.4	
27	−EPZ	04	36	31.6	
27	+EPZ	04	36	38.0	
27	−EXZ	06	59	19.1	#-984
27	+EPZ	07	51	16.0	
27	−EPZ	08	50	27.2	
27	+EPZ	09	22	21.4	
27	+EPZ	09	55	33.0	
27	+EPZ	10	46	38.4	
27	+EPZ	12	49	2.8	
27	−EPZ	12	49	7.0	
27	−EXZ	16	16	14.0	#-985
27	−EPcPZ	16	16	20.8	
27	+EPZ	16	29	21.4	
27	+EPZ	17	03	22.8	
27	+EPZ	17	15	19.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
27	−EXZ	18	08	24.6	#-986
27	+EPZ	19	57	0.8	
27	−EPZ	19	57	5.1	
27	−EPZ	21	25	18.6	
27	+EPZ	21	25	22.4	
27	+EPZ	22	31	0.0	#-987
27	+EPcPZ	22	31	4.2	#-987
27	−IpPZ	22	31	11.0	#-987
28	−EPZ	04	53	26.4	
28	−EPZ	04	53	29.0	
28	−EPZ	05	06	15.4	
28	+EPZ	06	21	10.5	
28	−EPKPabZ	07	40	50.0	#-988
28	+EpPKPdfZ	07	40	54.2	#-988
28	−EPZ	08	27	51.9	
28	−EPZ	08	45	2.0	
28	+EPZ	09	05	10.2	
28	+EPZ	11	19	59.0	#-989
28	+EPcPZ	11	20	5.7	#-989
28	+EPZ	11	53	12.0	
28	+EPZ	11	53	21.7	
28	+EPZ	13	17	51.2	#-990
28	−EpPZ	13	17	56.2	#-990
28	+EXZ	13	18	21.0	#-990
28	+EPZ	15	06	44.1	
28	−EPZ	16	46	1.7	
28	+EXZ	17	11	2.4	#-991
28	+EPZ	17	40	46.7	
28	−EPZ	17	40	51.8	
28	+EXZ	20	28	51.6	#-992
28	+EPZ	21	19	23.6	
28	+EPZ	22	50	45.1	
28	+EPZ	22	50	48.6	
28	−EPZ	23	20	9.8	
28	+EPZ	23	26	11.1	#-993
29	+EPZ	01	22	3.6	
29	+EPZ	02	21	17.0	
29	+EPZ	02	21	29.0	
29	+EPZ	02	40	28.5	
29	+EPZ	04	49	27.0	
29	−EPZ	05	19	13.6	
29	+EXZ	08	25	25.0	#-994
29	+EPZ	09	10	2.8	
29	−EPZ	11	29	1.6	
29	−IPZ	11	29	3.7	
29	+EPZ	11	39	4.1	
29	+EPZ	11	56	1.0	
29	+EPZ	12	02	47.5	
29	+EPZ	14	10	28.0	
29	−IPZ	14	10	31.8	
29	+IPZ	14	10	34.0	
29	+EXZ	15	06	50.0	#-995
29	−EPZ	18	20	8.6	
29	−IPZ	18	38	31.0	#-996
29	+IPcPZ	18	38	53.0	
29	−EXZ	21	58	17.4	#-997
29	+EPZ	23	13	30.0	
29	+EPZ	23	49	44.0	
30	+EPcPZ	03	12	29.2	#-998
30	+EpPZ	03	13	51.0	
30	−EPZ	03	41	25.4	
30	+EPZ	03	41	27.2	
30	−EPZ	03	41	37.0	
30	−EXZ	05	12	14.0	#-999
30	−EPZ	08	06	0.0	
30	+EPZ	08	06	33.0	
30	+EPZ	10	12	26.0	
30	+EPZ	13	00	12.0	#-1000

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
30	+EPZ	1344		43.0	
30	+EPZ	1615		11.0	
30	+EPZ	1828		44.5	
30	+EPZ	2031		9.0	
30	+EPZ	2120		7.0	
31	−EPZ	0021		2.0	
31	+EPZ	0049		49.8	#-1001
31	+EPZ	0121		23.4	
31	+EPZ	0126		39.0	
31	−EPZ	0152		29.0	
31	+EPZ	0311		0.1	
31	+EpPZ	1041		42.0	#-1002
31	+EPZ	1113		15.4	
31	+EPZ	1413		43.2	#-1003
31	−IsPZ	1413		47.0	#-1003
31	+EPZ	1636		11.6	#-1004
31	+EPZ	1805		1.8	
31	+EPZ	1810		7.0	
31	+EPKPbcZ	2004		28.6	#-1005
31	−EpPKPbcZ	2004		37.2	#-1005
31	+EPZ	2320		47.0	#-1006
31	+EpPZ	2320		53.0	#-1006
31	+EPZ	2340		4.0	
Aug.1	+EPZ	0018		35.3	
1	+EPZ	0018		45.2	
1	+EPZ	0223		55.0	
1	−EPZ	0223		58.0	
1	+EPZ	0535		35.0	
1	+EPZ	0553		0.6	
1	−EPZ	0618		11.0	
1	+EPZ	0618		33.0	
1	+EXZ	0736		49.0	#-1007
1	+EPZ	0810		12.8	
1	−EPZ	0914		53.8	
1	−IPZ	2014		45.0	
1	−IPZ	2014		53.0	
2	−IPZ	0143		34.9	
2	−EPZ	0143		43.6	
2	+EPZ	0624		9.0	#-1008
2	+EPZ	0949		13.2	
2	+EPZ	1000		22.0	
2	+EPZ	1042		25.9	
2	+EPZ	1134		9.0	
2	−EPZ	1205		2.0	
2	+EPZ	1212		22.5	
2	−EPZ	1212		27.6	
2	+EPZ	2002		11.8	
3	−IPZ	0831		18.4	
3	−EPZ	0831		39.0	
3	+IPZ	0929		18.4	
3	+EXZ	1852		28.4	#-1009
3	+EPZ	1909		27.8	
3	+EPZ	1909		39.0	
3	+EPZ	1919		16.2	
3	+EPZ	2223		56.0	
3	+EPZ	2241		39.4	
4	+EPZ	0044		55.3	
4	+IPZ	0134		39.4	#-1010
4	+IsPZ	0134		45.8	#-1010
4	+EXZ	0135		41.1	#-1010
4	+EPZ	0243		32.9	
4	−EPZ	0326		54.4	
4	+EPZ	0327		2.0	
4	+EPdiffZ	0344		40.7	#-1011
4	+EXZ	0347		50.4	#-1011
4	+EPZ	1147		30.6	
4	+IPZ	1615		2.0	
4	−IPZ	1615		4.7	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
4	−IPKPdfZ	1615		16.0	#-1012
4	+EXZ	1616		40.0	#-1012
4	−IPPZ	1618		12.0	#-1012
5	+IPZ	0243		0.9	
5	+EPZ	0243		4.0	
5	+EPZ	0552		53.6	#-1013
5	−IpPZ	0552		58.3	#-1013
5	+IPcPZ	0553		4.0	#-1013
5	+IPZ	0915		11.9	
5	−EPZ	0915		15.6	
5	+IPZ	1227		12.6	
5	−IPZ	1227		15.4	
5	+IPZ	1626		31.9	
5	−EPZ	1905		12.4	
5	+EPZ	2009		8.2	
5	+EPZ	2257		9.0	
5	+EPZ	2320		41.6	
6	+EPZ	0150		36.2	
6	+EPZ	0508		18.0	
6	+EPZ	0618		3.0	
6	−EPZ	0814		39.0	
6	+EPZ	0918		25.0	#-1014
6	+EPZ	1053		53.3	
6	−IPZ	1053		56.4	
6	+EPZ	1107		28.2	
6	+IPZ	1313		27.6	#-1015
6	−EpPZ	1313		31.2	
6	+EPZ	1319		48.0	#-1016
6	−EPZ	1552		36.6	
6	−EPZ	1659		3.0	#-1017
6	+IPcPZ	1659		5.0	
6	ESH	1709		41.0	
6	+EXZ	1717		40.0	#-1018
6	+EPZ	1734		37.7	#-1019
6	+IPcPZ	1734		39.6	
6	+EPZ	1735		16.0	
6	+EPZ	1740		40.2	
6	−EPZ	1803		15.6	
6	+EPZ	1918		5.6	
6	−EPZ	1949		43.6	
7	−EPZ	0112		24.0	
7	+EPZ	0340		46.8	
7	+IPZ	0918		4.6	#-1020
7	+ISPZ	0918		10.0	#-1020
7	−EPZ	0926		9.0	
7	+EpPZ	0951		21.9	#-1021
7	−EPZ	0955		31.6	
7	+EPZ	1449		42.7	#-1022
7	+EpPZ	1450		3.0	#-1022
7	+EPZ	1829		30.8	
7	+EPZ	2008		16.0	
8	−EPZ	0057		12.6	
8	+IPZ	0057		14.2	
8	+IPZ	0201		38.8	
8	−IPZ	0201		43.4	
8	−IPZ	0201		49.4	
8	+IPZ	0216		10.0	#-1023
8	−EPZ	0510		14.6	#-1024
8	−EPcPZ	0510		17.2	#-1024
8	ESH	0520		29.6	#-1024
8	+EPZ	0644		17.4	
8	−EPZ	0751		24.6	
8	−EPZ	0751		29.0	
8	−IPZ	0801		53.1	
8	−EPZ	0849		46.6	
8	+EPZ	1057		41.0	#-1025
8	−EsPZ	1057		45.0	#-1025
8	−EPZ	1221		45.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
8	+EPZ	1357	25.3	
8	+EPZ	1533	34.0	
8	+EPZ	1614	13.2	#-1026
8	+EPcPZ	1614	16.0	
8	+IPZ	1714	12.4	
8	+EPZ	1714	28.0	
8	−EPZ	1808	37.6	
8	+EPZ	1953	23.7	
8	−EPZ	1953	26.6	
8	+EPZ	2305	15.0	
9	+EPZ	0011	25.0	
9	+IPZ	0011	27.8	
9	+EPZ	0132	35.5	#-1027
9	+EPZ	0319	3.4	
9	+EPZ	0414	35.0	
9	−EPZ	0419	16.2	
9	+EPZ	0419	19.0	
9	+EPZ	1120	25.4	
9	+EPZ	1120	25.4	
9	+EPZ	1220	23.4	
9	+EPZ	1326	28.0	
9	+EPZ	1923	30.2	
9	−EPZ	1923	39.4	
9	+EPKPbcZ	2206	45.3	#-1028
9	+EPKPabZ	2207	0.6	#-1028
10	−EPZ	0440	6.0	
10	−EPZ	0440	8.4	
10	−EPZ	0732	21.2	#-1029
10	+EpPZ	0732	47.0	#-1029
10	+EPZ	1012	20.8	
10	+EPZ	1320	25.4	
10	−EPZ	2134	23.6	
10	−EPZ	2151	16.0	
10	−EPZ	2214	26.5	
10	+EPZ	2252	19.8	#-1030
10	+EXZ	2252	42.0	#-1030
11	−EPZ	0414	8.2	
11	−EPZ	0611	42.0	
11	−EPZ	0611	46.4	
11	−IPZ	1045	33.2	#-1031
11	+EPcPZ	1045	40.4	#-1031
11	ESH	1055	9.2	#-1031
11	+EPZ	1540	11.4	#-1032
11	−EpPZ	1540	37.8	#-1032
11	−EPZ	2138	29.4	
11	+IXZ	2142	6.6	#-1033
11	+EXZ	2142	25.0	#-1033
11	+EpPZ	2246	40.0	#-1034
12	+EXZ	0006	7.0	#-1035
12	+EPdiffZ	0013	8.4	#-1036
12	−IPZ	0106	0.0	
12	−IPZ	0106	10.5	
12	ESH	0116	8.8	
12	+EPZ	0214	12.3	
12	+EPZ	0214	15.2	
12	−EPZ	0427	59.0	
12	+EPZ	0605	52.0	
12	−EPZ	0606	0.0	
12	+EPZ	1002	55.0	
12	+IPZ	1003	1.8	
12	+EPZ	1003	11.0	
12	+EPZ	1212	37.0	
12	+EPZ	1318	13.6	
12	+EPZ	1631	3.6	
12	+EPZ	1642	5.2	
12	+EPZ	1642	28.0	
12	+EPZ	1812	59.0	#-1037
12	−EpPZ	1813	2.4	#-1037

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
13	−EXZ	0025	52.0	#- 1038
13	+EPZ	0053	35.0	
13	+EPZ	0217	17.0	
13	+EPZ	0422	47.0	
13	+EPZ	0602	45.6	
13	+EPZ	0611	18.0	
13	+EPZ	0811	32.5	
13	+EPZ	1004	33.2	#- 1039
13	+EpPZ	1004	55.0	#- 1039
13	+EPZ	1506	10.0	
13	+EPdiffZ	1557	22.0	#- 1040
13	+IXZ	1601	31.0	#- 1040
13	+EPZ	1735	53.0	#- 1041
13	−EPZ	1747	34.2	
13	+EPZ	2229	41.7	
13	+EPZ	2229	44.8	
13	+EPZ	2337	35.5	
13	−EPZ	2337	38.8	
14	+EPZ	0320	26.9	
14	+EPZ	0535	45.0	
14	+EPZ	0609	7.0	
14	+EPZ	0812	21.6	#- 1042
14	−EsPZ	0812	48.0	#- 1042
14	+EPZ	1116	33.2	
14	+EPZ	1204	21.6	#- 1043
14	−EPZ	1423	8.0	
14	+EXZ	1447	32.2	#- 1044
14	+EPZ	1643	27.6	
14	+EsPKPdfZ	1938	43.4	#- 1045
14	−EPKPabZ	1938	50.2	#- 1045
14	+EPZ	2106	37.8	
14	+EPZ	2106	39.8	
14	+EPZ	2106	47.0	
14	+IPZ	2134	15.4	#- 1046
14	+IPcPZ	2134	20.0	#- 1046
14	+EPZ	2343	15.0	
14	+IPZ	2343	27.4	
14	−EPZ	2343	43.0	
15	+EPZ	0213	14.8	
15	+EPZ	0314	33.0	
15	−EPZ	0314	40.0	
15	−EPZ	0314	44.4	
15	−IPZ	0418	25.4	#- 1047
15	−EPcPZ	0418	28.0	#- 1047
15	−IpPZ	0419	2.4	#- 1047
15	+EPZ	0427	4.0	
15	+EPZ	0808	28.4	
15	+EPZ	1005	25.4	
15	+EPZ	1037	34.0	#- 1048
15	+EpPZ	1037	42.0	#- 1048
15	+EsPZ	1037	46.0	#- 1048
15	−EXZ	1539	32.4	#- 1049
15	−IPZ	1629	53.0	
15	−EPZ	1704	27.0	#- 1050
15	+EXZ	1704	32.0	#- 1050
15	+EPZ	1820	24.4	
15	+IPZ	1907	24.0	#- 1051
15	+EPcPZ	1907	29.6	#- 1051
15	+IpPZ	1907	37.0	#- 1051
15	+EPZ	2214	8.6	
15	+EPZ	2214	9.4	
15	−EPZ	2313	27.0	
16	+EPZ	0013	32.0	
16	+EPZ	0013	39.6	
16	+EPZ	0108	35.6	
16	−EPZ	0241	43.0	
16	−IPZ	0241	44.4	
16	+EPZ	0248	5.0	#- 1052

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
16	+EpPZ	02	48	6.8	#-1052
16	+EPZ	03	02	27.6	#-1053
16	+EsPZ	03	02	33.4	#-1053
16	−EPZ	03	07	2.2	#-1054
16	−EpPZ	03	07	7.0	#-1054
16	+EPZ	03	32	7.6	
16	+EPZ	04	02	10.4	
16	+EPZ	05	11	4.0	
16	−EPZ	05	30	49.2	#-1055
16	+EXZ	05	30	55.0	#-1055
16	+EpPZ	05	37	19.4	#-1056
16	−EsPZ	05	37	23.4	#-1056
16	+EPZ	05	41	52.2	
16	−EPZ	05	41	54.0	
16	+EPZ	06	08	27.4	#-1057
16	+EpPZ	06	08	32.0	#-1057
16	+EsPZ	06	08	34.6	#-1057
16	+EPZ	06	09	2.4	#-1058
16	−EpPZ	06	09	6.2	#-1058
16	+EPZ	06	53	15.4	#-1059
16	+EpPZ	06	53	22.0	#-1059
16	−EsPZ	06	53	24.0	#-1059
16	+EPZ	07	06	34.0	#-1060
16	−EpPZ	07	06	39.6	#-1060
16	+EPZ	07	28	20.2	
16	+EPZ	08	49	30.4	
16	+EPZ	11	06	18.7	
16	−EPZ	11	06	35.6	
16	−EPZ	12	03	45.6	#-1061
16	−EPcPZ	12	03	53.0	#-1061
16	+EPZ	13	21	25.4	
16	+EPZ	13	21	30.0	
16	+EXZ	15	57	29.0	#-1062
16	+EPZ	17	01	33.4	
16	+EPZ	17	01	43.6	
16	+EPZ	17	22	31.6	
16	−IPZ	22	28	40.2	#-1063
16	+EpPZ	22	28	50.4	#-1063
16	+IsPZ	22	28	55.3	#-1063
17	+EPcPZ	00	17	6.2	#-1064
17	−EXZ	00	17	17.4	#-1064
17	+EPZ	00	23	8.8	
17	+EPZ	00	31	26.9	#-1065
17	+EPcPZ	00	31	29.4	#-1065
17	−EPZ	02	28	42.2	
17	+EPZ	04	23	55.8	#-1066
17	+EPZ	04	32	24.4	
17	+EPZ	04	36	29.0	#-1067
17	−EPcPZ	04	36	31.0	#-1067
17	+EPKPbcZ	05	45	35.6	#-1068
17	+EpPKPdfZ	05	45	42.0	#-1068
17	+EPZ	08	06	7.5	#-1069
17	−EPZ	09	09	14.8	#-1070
17	+EpPZ	09	09	21.1	#-1070
17	−EpPKPbcZ	11	32	0.0	#-1071
17	−EsPKPbcZ	11	32	7.0	#-1071
17	−EPZ	13	08	21.9	
17	+EPZ	13	15	52.0	#-1072
17	+EPZ	14	54	2.6	#-1073
17	+EPcPZ	14	54	5.6	#-1073
17	+EpPZ	14	54	27.0	#-1073
17	+EPZ	16	18	27.2	#-1074
17	+EsPZ	16	18	36.2	#-1074
17	−IPZ	16	39	23.2	
17	−IPZ	16	39	25.0	
17	−IPZ	16	39	39.3	
17	+EPZ	18	18	36.0	
17	−EPZ	18	22	52.1	#-1075

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
17	−EPZ	2014	23.1	#-1076
17	+EPZ	2120	52.6	#-1077
17	−EPcPZ	2120	54.2	#-1077
17	−EPZ	2147	25.0	
18	−EPZ	0027	26.0	
18	−EPZ	0107	6.0	
18	+EPZ	0107	10.2	
18	+EPZ	0352	0.4	
18	+EPZ	0455	56.2	
18	−EPZ	1221	11.0	
18	−IPZ	1244	55.4	#-1078
18	+EPZ	1335	20.1	#-1079
18	+EPZ	1501	22.9	#-1080
18	−EPZ	1507	1.0	#-1081
18	+EPcPZ	1507	3.2	#-1081
18	+EsPZ	1507	12.0	#-1081
18	+EXZ	1610	49.0	#-1082
18	−EPZ	1611	15.8	
18	+EPZ	1734	39.0	
18	+EPZ	1809	42.0	
18	+EPZ	1906	0.0	
18	−IPZ	2138	49.6	#-1083
18	+IPcPZ	2138	55.6	#-1083
18	ESH	2148	48.0	#-1083
18	−IPZ	2220	55.8	
18	+IXZ	2247	3.4	#-1084
18	+EPZ	2328	28.0	
18	+EPZ	2328	38.8	
19	+EPZ	0047	27.9	
19	+EPZ	0047	34.9	
19	+IPZ	1105	40.0	
19	+EPZ	1105	45.5	
19	−EPZ	1233	24.0	
19	+EPZ	1644	45.0	
19	+EPZ	1644	49.6	
19	+EPZ	1751	10.9	
19	+EPZ	1803	16.0	
19	+EPZ	1837	50.8	
19	+EPZ	1907	4.5	
19	+EPZ	1951	21.4	#-1085
19	+EPcPZ	1951	30.1	#-1085
19	ESH	2000	56.2	#-1085
19	+EPZ	2010	30.8	
19	−EPZ	2045	32.0	
19	+EPZ	2139	34.2	
19	+EPZ	2228	10.2	
20	+EPZ	0024	9.8	
20	+EPZ	0052	16.8	
20	+EPZ	0052	20.8	
20	+EPZ	0114	36.0	
20	−EPZ	0214	31.6	
20	−EPZ	0214	48.6	
20	+EPZ	0722	20.0	
20	−EPZ	0817	33.6	
20	+EPZ	1106	35.0	
20	+EPZ	1106	46.0	
20	−EPZ	1636	52.7	
20	+EPZ	1709	31.4	
20	+EPZ	1818	32.4	
20	−EPZ	1818	35.0	
20	+EpPZ	1924	52.2	#-1086
20	+EPZ	2102	12.5	
20	+EPZ	2131	4.3	#-1087
20	+EPZ	2316	26.0	
20	+EPZ	2316	32.1	
21	+EPZ	0000	17.2	
21	+EpPZ	0336	52.4	#-1088
21	+EPZ	0426	30.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
21	+EPZ	0455	28.4	#-1089
21	ESH	0505	35.8	#-1089
21	−EPZ	0620	7.8	
21	−EPZ	0827	41.0	
21	−EPZ	0841	9.0	
21	+EXZ	0844	10.0	
22	+EPZ	0836	19.0	
22	−EPZ	0836	26.0	
22	−EPZ	1048	41.4	
22	+EPZ	1408	31.8	
22	−EPZ	1500	27.0	
22	+EPZ	1614	1.6	
22	+EPZ	1804	38.7	
22	+EPZ	1910	15.0	#-1090
22	+EpPZ	1910	16.2	#-1090
22	+EXZ	1910	25.4	#-1090
22	+EPZ	2013	27.0	
22	−EPZ	2211	27.6	
22	+EPZ	2245	25.6	
22	+EpPZ	2249	50.2	#-1091
23	+EPcPZ	0108	37.0	#-1092
23	+EPZ	0247	33.6	
23	+EPZ	0509	15.6	
23	−EPZ	0642	2.1	
23	+EPZ	0712	1.0	
23	+EPZ	0758	4.8	
23	+EPZ	0845	39.9	
23	−IPZ	0845	42.2	
23	−IPZ	0845	44.4	
23	+EPZ	1005	34.4	
23	+EPZ	1124	44.2	
23	+EPZ	1124	49.6	
23	+EPZ	1125	33.4	
23	+EPZ	1150	40.2	#-1093
23	−EPcPZ	1150	43.6	#-1093
23	+IPZ	1216	59.0	
23	+EPcPZ	1218	9.2	#-1094
23	−EpPZ	1218	14.2	#-1094
23	−EPZ	1808	1.1	
23	−EPZ	2219	1.0	
24	+EPZ	0034	19.0	
24	+EPZ	0214	13.6	
24	+EPZ	0409	39.0	
24	+EPZ	0409	41.7	
24	+EPZ	0409	45.4	
24	−EPZ	0523	44.2	
24	−EPZ	0710	48.4	#-1095
24	+EPZ	0808	23.4	
24	+IPZ	0839	0.8	
24	+EPZ	0839	2.0	
24	+IPZ	0853	3.0	
24	−EPZ	0853	4.0	
24	−IPZ	0853	8.4	
24	−EPZ	1144	40.0	#-1096
24	−EPcPZ	1144	44.6	#-1096
24	−EPZ	1216	4.0	#-1097
24	+EXZ	1216	26.7	#-1097
24	+IPZ	1558	53.7	#-1098
24	−IpPZ	1558	56.2	#-1098
24	−IPcPZ	1559	5.0	#-1098
24	−EXZ	1616	37.0	#-1099
24	+EPZ	1902	24.0	
24	+EPZ	1927	29.0	
24	−EPZ	2341	45.2	
25	+EXZ	0017	46.8	#-1100
25	+EPZ	0412	10.4	#-1101
25	+EPcPZ	0412	20.0	#-1101
25	−EPZ	0643	53.0	#-1102

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
25	+EPZ	0644		23.0	
25	+EPZ	0850		26.5	
25	−EPZ	1024		33.5	
25	+EPZ	1043		44.0	
25	−IPZ	1043		45.8	
25	−EPZ	1048		5.4	
25	+EPZ	1516		29.6	
25	−IPZ	1614		23.7	#-1103
25	−IpPZ	1614		26.8	#-1103
25	+IsPZ	1614		28.5	#-1103
25	+EPZ	1711		1.6	
25	+IPZ	1711		3.2	
25	+EPZ	1711		7.0	
25	−EPZ	1814		25.5	
25	+EPZ	1947		35.4	
25	+EPZ	2147		5.0	
25	+EPZ	2223		8.0	
25	+EPZ	2223		25.6	
25	+EPZ	2223		31.7	
25	+EPZ	2253		17.1	
25	+EPZ	2320		42.6	#-1104
25	−EPcPZ	2320		45.0	#-1104
25	ESH	2330		11.0	#-1104
26	+EPZ	0450		30.6	
26	−IPKPbcZ	0518		17.5	#-1105
26	+IXZ	0518		37.0	#-1105
26	+EPZ	0609		28.2	
26	−EPZ	0817		3.5	
26	+EPZ	1050		40.0	
26	+EPZ	1337		31.8	
26	+EPZ	1337		40.7	
26	+EPZ	1453		45.9	
26	−EPZ	1453		48.8	
26	+EPZ	2116		23.0	
26	+EPZ	2210		41.0	
26	−EPZ	2331		4.7	
27	+EPZ	0624		11.0	
27	+EPZ	0624		15.0	
27	−EPZ	0624		22.0	
27	+EPZ	1623		19.0	
27	+EPZ	1803		27.6	
27	−EPZ	1944		3.0	#-1106
27	+EPZ	2059		53.2	#-1107
27	+EXZ	2100		23.3	#-1107
27	−EPZ	2146		1.0	
27	+EPZ	2232		7.0	
28	+EPZ	0212		9.0	
28	−IPZ	0305		53.2	
28	−IPZ	0305		56.8	
28	ESH	0315		8.8	
28	−IPZ	0352		11.0	#-1108
28	+IPcPZ	0352		15.1	#-1108
28	+EPZ	0555		16.6	#-1109
28	−EPZ	0901		17.4	#-1110
28	+EPcPZ	0901		22.0	#-1110
28	+EPZ	1112		19.0	
28	+EPZ	1112		22.0	
28	+EPZ	1208		19.2	
28	−EPZ	1934		12.2	
28	−EPZ	1934		18.6	
29	−EPZ	0026		34.6	
29	−EPZ	0034		23.0	#-1111
29	−EPZ	0126		6.4	
29	+EPZ	0208		27.8	#-1112
29	+EPcPZ	0208		31.7	#-1112
29	+EPZ	0618		18.0	
29	−EPZ	0618		23.4	
29	+EPZ	0651		27.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
29	+EPZ	0704	44.1	
29	+EPZ	0940	42.2	#-1113
29	−EPZ	1028	8.4	
29	+EPZ	1139	28.0	
29	+EPZ	1139	34.8	
29	+EPZ	1223	9.4	
29	+EPZ	1223	21.8	
29	−EPZ	1404	4.2	#-1114
29	−IXZ	1404	5.6	#-1114
29	+EXZ	1406	21.8	#-1114
29	ESH	1413	57.4	#-1114
30	+EPZ	0717	35.1	
30	+EPZ	0717	41.4	
30	+EPZ	0736	2.0	
30	+EPZ	1008	11.9	
30	−EPZ	1008	14.0	
30	−EPZ	1058	39.0	#-1115
30	+EPZ	1111	25.0	
30	+EPZ	1111	28.1	
30	−EPZ	1147	43.8	#-1116
30	−EPZ	1210	19.4	
30	−EPZ	1231	43.4	
30	+EPZ	1231	44.0	
30	+EPZ	1404	37.0	#-1117
30	−EPcPZ	1404	41.6	#-1117
30	+EPZ	1410	28.6	
30	+EPZ	1425	39.0	
30	+EPZ	1459	45.0	
30	+EPZ	1459	48.0	
30	−IPZ	1644	50.0	
30	−EPZ	1644	52.0	
30	+EPZ	1711	5.3	
30	+EPZ	1802	40.0	
30	−EPZ	1819	30.0	
30	−IPZ	1819	30.0	
30	+IPZ	1840	9.8	
30	+EPZ	2116	7.0	
30	+EPcPZ	2117	38.0	#-1118
30	+EsPKPdfZ	2215	46.0	#-1119
30	+EPZ	2229	25.0	
31	+EXZ	0027	33.7	#-1120
31	+EXZ	0027	39.6	#-1120
31	+EPZ	0204	15.0	
31	+EPZ	0204	24.0	
31	+EPZ	0242	57.6	#-1121
31	+EpPZ	0243	20.6	#-1121
31	−EPZ	0607	17.0	
31	+EPZ	0607	40.0	
31	−EPZ	0658	25.0	
31	+EPZ	0658	34.1	
31	+EPKPdfZ	0703	48.0	#-1122
31	−EXZ	0703	53.0	#-1122
31	−EPZ	0717	3.0	
31	+EPZ	0751	1.7	
31	−EXZ	1010	49.0	#-1123
31	+EpPKPabZ	1011	18.1	#-1123
31	+EPKPabZ	1014	31.0	#-1124
31	−EsPKPabZ	1026	46.0	#-1125
31	+EPZ	1553	37.0	
31	+EPZ	1809	43.4	#-1126
31	+EPcPZ	1809	45.0	#-1126
31	+EPZ	1920	15.9	
31	+EPZ	1920	19.6	
31	+EPZ	2226	3.0	
31	+IPZ	2253	22.4	#-1127
31	+IpPZ	2253	25.2	#-1127
31	−IpPZ	2253	28.8	#-1127
31	+EPZ	2328	21.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
Sep.1	+EXZ	0010	42.0		#-1128
1	+EPZ	0014	0.7		
1	+EPZ	0141	3.8		
1	+EPZ	0213	33.4		
1	−EPZ	0518	46.2		
1	+EPZ	0540	19.8		
1	+EPZ	0540	27.4		
1	+EPZ	0909	20.0		
1	+EPZ	009	25.0		
1	+EPZ	1149	56.0		
1	−IPZ	1204	39.6		
1	−IPZ	1204	41.4		
1	ESH	1214	43.6		
1	+EPZ	1223	1.8		
1	+EPZ	1525	14.2		
1	+EPZ	1525	24.2		
1	−EPZ	1633	0.0		
1	+EPZ	1727	36.0		
1	−EPZ	1854	19.6		
1	+EPZ	2002	41.0		
1	+IPZ	2002	46.0		
1	−EPZ	2103	33.2		
2	−EPZ	0042	4.0		
2	−EPZ	0042	8.4		
2	−EPZ	0117	45.4		
2	−EPZ	0117	50.0		
2	+EPZ	0305	4.2		
2	+EPZ	0309	27.4		
2	+EXZ	0311	10.2		#-1129
2	+EXZ	0322	21.0		#-1130
2	+EpPZ	0322	37.0		#-1130
2	−EPZ	0443	22.6		
2	−IPZ	0443	25.0		
2	+IPZ	0443	35.0		
2	+EPZ	0500	35.0		
2	+EPZ	0537	35.0		
2	+EPZ	0808	41.7		
2	−EPZ	0909	23.8		
2	+EPZ	0915	3.0		#-1131
2	+IPZ	0923	2.0		
2	+EPZ	1512	54.0		
2	−EPZ	1512	57.0		
2	−EPZ	1725	38.2		
2	−EPZ	1817	27.2		
2	+EPZ	1900	49.1		
2	−EPZ	1922	17.0		
2	+EPZ	2013	51.4		
2	+EPZ	2114	6.0		#-1132
2	−EPcPZ	2114	8.0		#-1132
2	+EpPZ	2114	21.0		#-1132
2	−EPZ	2234	11.7		
2	−EPZ	2234	13.8		
2	+EPZ	2234	22.0		
2	+EPZ	2309	5.4		
3	+EPZ	0048	50.6		#-1133
3	−EpPZ	0048	55.6		#-1133
3	+EPZ	0110	52.7		#-1134
3	+EPZ	0447	42.0		
3	+IPZ	0611	56.4		#-1135
3	+IPcPZ	0612	0.8		#-1135
3	−EPZ	0625	16.8		
3	+EPZ	0713	50.0		
3	+EPZ	0713	55.0		
3	+EPZ	0723	15.0		
3	+IPZ	0835	59.0		
3	+EPZ	0906	46.0		
3	+EPZ	0947	43.0		
3	−EPZ	0947	48.7		

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
3	+EPZ	1123		35.6	
3	+EpPZ	1326		9.0	#-1136
3	+EPZ	1326		44.2	
3	+IPZ	2359		54.4	#-1137
4	+IPZ	0130		0.0	
4	−EPKPabZ	0436		49.6	#-1138
4	+IpPKPabZ	0437		4.2	#-1138
4	+IPZ	0637		7.9	
4	+IPZ	0637		22.1	
4	−EPZ	0647		31.0	
4	+EXZ	0936		24.0	#-1139
4	+EPKPabZ	1024		44.0	#-1140
4	+EPZ	1915		24.6	
4	+EPZ	1935		45.0	
4	+EPZ	2015		38.0	
4	−EPZ	2015		45.6	
4	−EPZ	2345		22.6	
4	+EPZ	2345		33.0	
5	+EPZ	0438		25.0	
5	+EPZ	0438		28.4	
5	+EPcPZ	0604		27.9	#-1141
5	+EPZ	0713		38.8	
5	+EPZ	0817		18.6	
5	+EPKPabZ	0954		43.0	#-1142
5	−EsPKPabZ	0954		55.0	#-1142
5	+EPZ	1008		17.0	
5	+IPZ	1008		18.2	
5	−IPZ	1539		54.0	#-1143
5	−IPcPZ	1539		56.8	#-1143
5	+EPZ	2046		39.4	
5	+EPZ	2101		47.0	
5	+EPZ	2121		26.0	
5	−EPZ	2121		28.4	
5	+EPZ	2348		19.0	
6	−EPZ	0017		29.6	
6	−EPZ	0017		31.0	
6	+EPZ	0109		37.0	
6	+EPZ	0204		0.5	
6	−EPZ	0204		5.6	
6	+EPZ	0233		5.0	#-1144
6	−IsPZ	0233		10.0	#-1144
6	+EPZ	0346		46.4	
6	−EPZ	0405		25.0	
6	+EPZ	0405		27.7	
6	+IPZ	0519		38.0	
6	+EPZ	0625		11.0	
6	+EPZ	0625		20.0	
6	−EPZ	0716		8.9	
6	+EPZ	0832		7.2	
6	−EPZ	1203		15.0	
6	+EPZ	1615		5.0	
6	−EPZ	1946		2.4	
6	+EPZ	2144		24.0	
6	+EPZ	2144		26.0	
6	+EPZ	2315		47.0	
6	−EPZ	2315		51.8	
7	−EPZ	0012		35.0	
7	+EPZ	0034		1.9	
7	−EXZ	0035		29.0	#-1145
7	+EPZ	0204		3.6	
7	+EPZ	0614		21.0	
7	+EPZ	0816		6.0	
7	+EPZ	0943		2.4	
7	+EPZ	1011		19.4	
7	+EPZ	1140		35.0	
7	+EPZ	1215		10.6	
7	−IPZ	1408		6.6	#-1146
7	−IPcPZ	1408		11.0	#-1146

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
7	+EpPZ	1408		41.3	#-1146
7	ESH	1418		19.2	#-1146
7	−EPZ	1534		16.0	#-1147
7	+IPcPZ	1534		19.0	#-1147
7	+EPZ	1712		26.0	
7	+EPZ	1925		19.5	#-1148
7	+EpPZ	1925		44.0	#-1148
7	+EPZ	2210		5.0	
7	+EPZ	2249		4.2	
8	−EPZ	0124		48.0	
8	+EPZ	0131		28.4	
8	+EPZ	0433		41.4	
8	−EPZ	0814		50.0	
8	+EPZ	0917		0.8	
8	+EPZ	0917		7.2	
8	+EPZ	0940		39.6	#-1149
8	+EPcPZ	0940		43.2	#-1149
8	+EPZ	1136		49.6	
8	+EPZ	1136		53.4	
8	+EPZ	1136		56.4	
8	+EPZ	1315		25.6	
8	−EPZ	1315		29.0	
8	+EPZ	1402		1.6	
8	+EPZ	1646		29.4	#-1150
8	+EpPZ	1646		40.6	#-1150
8	+EPZ	1701		5.9	
8	+EPZ	2109		32.5	
8	−EPZ	2215		14.4	
9	+EPZ	0209		55.4	
9	−EPZ	0210		0.4	
9	−EPZ	0611		7.2	
9	+EPZ	0657		6.0	
9	+EPZ	0714		41.6	
9	−EPZ	1034		17.6	
9	−EPZ	1340		31.4	
9	+EPZ	1541		3.0	
9	+EPZ	1541		10.6	
9	−EPZ	1617		32.7	#-1151
9	+EPZ	1644		9.0	#-1152
9	+EpPZ	1644		15.0	#-1152
9	−EsPZ	1644		19.0	#-1152
9	+EPZ	1711		12.0	#-1153
9	+EPZ	1720		14.4	
9	+EXZ	1815		28.3	#-1154
9	+EPZ	2009		2.7	
9	+EPZ	2009		24.0	
9	+EPZ	2112		32.0	
9	+EPZ	2112		34.4	
9	+EPZ	2241		3.5	
9	+EPZ	2308		25.5	
9	+EPZ	2308		35.0	
10	+EPZ	0019		19.0	
10	+IXZ	0125		27.6	#-1155
10	−IPcPZ	0125		29.2	#-1155
10	+EpPZ	0125		39.9	#-1155
10	+EPZ	0138		45.6	
10	−EPZ	0616		4.0	
10	−EPZ	0716		3.0	
10	−EPZ	0716		8.0	
10	+EPZ	0802		2.0	
10	+EPZ	1014		24.0	
10	+EPZ	1014		28.6	
10	+EPZ	1206		44.4	
10	+EPZ	1234		21.4	#-1156
10	+EpPZ	1234		23.4	#-1156
10	+EsPZ	1234		27.0	#-1156
10	−EPZ	1500		19.4	
10	+EPZ	1500		22.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
10	+EPZ	1519	24.0	
10	+EPZ	1611	5.4	
10	+EPZ	1611	21.0	
10	−EPZ	1954	42.0	#-1157
10	+EpPZ	1954	46.0	#-1157
10	+EPZ	2008	45.0	
10	+EPZ	2122	15.4	
10	+EPZ	2145	24.8	
10	+EPZ	2338	4.5	
11	+EPZ	0017	37.0	
11	−EPZ	0017	49.8	
11	+EPZ	0021	24.9	
11	+EPZ	0142	12.3	
11	+EPZ	0142	18.1	
11	+EPZ	0142	24.0	
11	+EPZ	0217	6.0	
11	+EPZ	0323	14.0	
11	−EPZ	0416	30.0	
11	+EPZ	0822	4.9	
11	−EPZ	1208	17.5	
11	+EPZ	1311	40.6	
11	−EPZ	1317	17.2	
11	−EPZ	1317	27.0	
11	+EPZ	1508	36.0	
11	+EPZ	1702	1.0	
12	−EPZ	0154	2.0	#-1158
12	+EpPZ	0154	10.4	#-1158
12	−EPZ	0432	4.0	#-1159
12	−EPcPZ	0432	6.8	#-1159
12	+EPcPZ	0623	45.9	#-1160
12	+EXZ	0629	51.0	#-1161
12	−EPZ	0712	19.6	
12	+EPZ	0813	31.0	
12	+IPZ	0900	55.6	#-1162
12	+IXZ	0901	8.0	#-1162
12	+EPZ	0915	51.4	#-1163
12	−EPcPZ	0915	55.4	#-1163
12	−EPZ	1026	0.0	
12	+EPZ	1026	16.6	
12	+EPZ	1318	43.6	
12	+EPZ	1507	27.6	
12	+EPZ	1507	39.0	
12	+EXZ	1545	42.0	#-1164
12	+EPZ	1547	24.0	
12	+EPZ	2022	16.0	
12	+EPZ	2116	25.0	
12	−EPZ	2340	8.2	
13	+EPZ	0123	4.0	
13	+EPZ	0417	50.5	
13	−EPZ	0417	53.4	
13	−EsPZ	0419	8.4	#-1165
13	+EPZ	0651	3.0	
13	+EPZ	0651	8.0	
13	+EPZ	0742	51.6	
13	−EPZ	0743	3.6	
13	+EPZ	0916	41.0	#-1166
13	−EPcPZ	0916	44.8	#-1166
13	+EPZ	1009	35.0	
13	+EPZ	1123	42.0	
13	+EPZ	1906	24.0	
13	+EPZ	1906	34.4	
13	+EPZ	1915	29.5	
13	+EPZ	1935	35.0	#-1167
13	−EpPZ	1935	39.0	#-1167
13	+EpPZ	1935	41.0	#-1167
13	+EPZ	2007	36.0	
13	+EPZ	2014	30.8	
13	−EPZ	2111	52.6	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
13	−EPZ	21	12	0.0	
13	+EPZ	21	24	4.0	
14	+EsPKPdfZ	00	47	18.4	#-1168
14	+EXZ	00	47	30.0	#-1168
14	+EPZ	05	34	7.6	
14	+EsPZ	06	19	14.0	#-1169
14	+EPZ	09	15	3.9	
14	−EPZ	12	45	0.6	
14	+EPZ	12	45	15.0	
14	+EPZ	16	02	30.2	
14	+EPZ	16	21	4.2	
14	+EPZ	18	12	1.2	
14	−EPZ	19	27	7.9	
14	+EXZ	19	27	32.0	#-1170
14	+EPZ	19	40	23.0	
14	+EPZ	19	40	30.0	
14	−EXZ	20	48	27.3	#-1171
14	+EPcPZ	20	48	32.6	#-1171
14	+EpPZ	20	48	53.6	#-1171
15	+EPKPdfZ	00	43	43.0	#-1172
15	−IPKPbcZ	00	43	49.6	#-1172
15	+EPZ	02	17	28.4	#-1173
15	+EPcPZ	02	17	34.0	#-1173
15	−EPZ	02	22	28.6	#-1174
15	+EPZ	03	10	20.4	
15	+EPZ	03	10	33.4	
15	+EPZ	06	15	7.2	#-1175
15	+EPZ	07	27	20.0	#-1176
15	+EPZ	07	42	4.4	
15	+EPZ	07	42	6.0	
15	+EPZ	09	19	26.2	#-1177
15	−EXZ	09	19	35.2	#-1177
15	+EPZ	12	21	8.4	
15	−IPZ	14	14	56.0	
15	−IPZ	14	14	57.0	
15	+EPZ	14	21	18.0	
15	+EPKPdfZ	16	41	25.4	#-1178
15	−EpPKPdfZ	16	41	35.0	#-1178
15	−IXZ	16	41	53.0	#-1178
15	+EPZ	17	24	26.8	
15	+EPZ	22	08	55.6	#-1179
16	+EPZ	00	05	17.0	
16	+EXZ	00	10	47.6	#-1180
16	−EPZ	00	25	54.0	#-1181
16	+EPZ	01	15	45.0	
16	+EPZ	01	34	22.2	
16	+EXZ	03	36	13.0	#-1182
16	+EPZ	04	21	4.8	#-1183
16	+EPcPZ	04	21	8.8	#-1183
16	+EPZ	04	42	18.4	
16	+EPZ	05	43	12.6	#-1184
16	+EPcPZ	05	43	16.8	#-1184
16	+IPZ	07	34	18.4	
16	+IPZ	07	34	24.6	
16	+EPZ	08	19	20.0	
16	+EPZ	08	19	22.0	
16	−EPZ	09	13	7.2	
16	+EPZ	10	02	3.6	
16	+EPZ	10	02	8.4	
16	−EPZ	11	02	46.3	
16	+EPZ	16	33	36.6	
16	−EPZ	16	33	40.9	
16	+EPZ	18	16	19.0	
16	+EPZ	18	16	25.2	
16	+EPZ	18	16	35.0	
16	+EPZ	21	16	27.5	
16	−EPZ	23	23	51.6	#-1185
16	−IPZ	23	37	53.0	#-1186

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
16	−EXZ	23	37	54.7	#-1186
16	−EXZ	23	38	29.7	#-1186
17	+EPZ	00	14	13.9	
17	−IPZ	00	14	16.5	
17	−IPZ	00	14	27.2	
17	−IPZ	00	14	30.2	
17	+EPZ	01	46	35.8	
17	+EPZ	01	46	46.0	
17	−EPZ	05	15	15.0	
17	+EPZ	07	23	16.0	#-1187
17	−EPcPZ	07	23	26.5	#-1187
17	−EPZ	08	25	21.1	
17	+EPZ	10	45	48.0	
17	+EPZ	10	45	50.0	
17	+EPZ	10	52	15.6	#-1188
17	+IPcPZ	10	52	16.7	#-1188
17	+EPZ	11	10	0.1	
17	+EPZ	11	10	1.0	
17	−EPZ	11	10	7.5	
17	+EPZ	13	50	6.6	
17	+IPZ	14	37	12.0	
17	+IPZ	15	20	39.0	
17	+EPZ	16	15	38.0	#-1189
17	−EPcPZ	16	15	40.9	#-1189
17	+EPZ	19	47	35.5	
17	+EPZ	19	47	46.9	
17	−EPZ	20	21	38.8	
17	−EPZ	20	21	46.0	
17	+EPZ	20	47	21.0	
17	+EPZ	20	47	22.8	
17	−EPZ	22	15	42.6	
17	−EPZ	23	24	3.8	#-1190
17	+EPZ	23	49	13.9	
18	+EPZ	00	44	38.8	#-1191
18	+EPZ	06	05	27.0	
18	+EPZ	06	05	33.8	
18	+EPZ	06	05	41.6	
18	+EPZ	12	54	10.5	#-1192
18	−EsPZ	12	54	15.2	#-1192
18	+EPZ	17	07	54.0	
18	+EPZ	20	03	9.0	
18	+EPZ	20	03	13.6	
18	+EPcPZ	21	06	44.0	#-1193
18	+EPZ	22	11	24.0	
18	−EPZ	22	11	29.2	
18	−EPZ	23	36	13.0	
19	+EPZ	03	16	12.0	
19	+IPZ	04	08	2.1	#-1194
19	+EsPZ	04	08	33.4	#-1194
19	+EPZ	12	01	39.0	
19	+EPZ	12	01	47.0	
19	+EPZ	14	24	50.7	
19	+EPZ	14	24	55.8	
19	+EPZ	15	40	57.0	#-1195
19	−EPZ	16	10	47.5	
19	+EPZ	16	44	35.0	
19	+EPZ	16	55	45.1	
19	+EXZ	17	44	10.0	#-1196
19	−EXZ	17	44	21.0	#-1196
19	+EPZ	18	58	29.0	
19	+EPZ	20	29	25.4	#-1197
19	+EXZ	20	29	30.0	#-1197
19	−EPZ	21	36	11.6	
19	+EPZ	21	36	17.0	
19	+EPZ	23	41	21.7	
20	−EPZ	01	44	53.0	
20	+EPZ	01	44	54.4	
20	+EPZ	02	11	28.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
20	+EPZ	0211	31.6	
20	+EPZ	0211	39.0	
20	+EPZ	0426	11.6	
20	+EPZ	0525	42.0	
20	+EPZ	0525	44.8	
20	−EpPKPdfZ	0709	24.0	#- 1198
20	−EPZ	0725	52.0	
20	+EPZ	0813	39.0	
20	−EPZ	0816	4.0	
20	+EPZ	0816	10.4	
20	−EPZ	1012	27.4	
20	+EPZ	1126	17.5	
20	+EPZ	1136	15.7	
20	+EPZ	1329	12.0	
20	+EPZ	1329	22.0	
20	+EPZ	1329	48.4	
20	+EPZ	1420	24.3	
20	−EPZ	1420	27.0	
20	+EPZ	1421	2.6	
20	+EPZ	1421	16.5	
20	+EPZ	1521	37.0	#- 1199
20	−IPcPZ	1521	38.1	#- 1199
20	−EPZ	1713	55.0	#- 1200
20	+EXZ	2036	39.0	#- 1201
20	−IXZ	2036	39.6	#- 1201
20	−EXZ	2036	47.1	#- 1201
21	NIL			
22	+EPZ	1612	16.0	
22	+EPZ	1615	40.9	
22	−EPZ	1615	46.8	
22	+EPZ	1916	41.0	
22	+EPZ	1916	42.0	
22	+EPZ	2119	9.0	#- 1202
22	+EPZ	2321	9.8	
23	+EXZ	0021	15.0	#- 1203
23	+EpPZ	0021	21.0	#- 1203
23	+EPZ	0134	26.9	
23	−EPZ	0134	29.4	
23	−EPZ	0211	39.5	
23	+EPZ	0211	42.0	
23	+EPZ	0211	44.0	
23	+EPZ	0510	6.2	
23	+EPZ	0857	16.9	
23	−EPZ	0921	20.4	
23	+EPZ	0957	36.0	
23	+EPZ	0957	38.0	
23	+EPZ	1008	52.6	
23	+EPZ	1036	10.0	
23	+EPZ	1036	12.6	
23	+EPZ	1044	18.0	
23	+EPZ	1044	22.0	
23	+EPZ	1338	1.4	
23	+IPZ	1338	3.4	
23	+IPZ	1338	16.0	
23	+EPZ	1423	31.0	
23	+IPZ	1524	39.0	#- 1204
23	+EPcPZ	1524	48.0	#- 1204
23	+EsPZ	1524	53.6	#- 1204
23	+EPZ	1741	13.9	#- 1205
23	+IPcPZ	1741	14.9	#- 1205
23	+EPZ	1810	37.0	
23	+EPZ	1810	42.2	
23	+EPZ	2020	52.6	
23	−EPZ	2021	0.2	
23	+EPZ	2334	46.0	
24	−EPZ	0007	13.6	
24	+EPZ	0007	15.1	
24	+EPZ	0042	28.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
24	+EPZ	0216	44.0	
24	−EPZ	0231	35.8	
24	+EPZ	0241	0.2	
24	+EPZ	0444	57.5	
24	+EPZ	0539	20.0	
24	+EPZ	0655	35.0	
24	+EPZ	0655	37.0	
24	+EPZ	0718	22.1	
24	+EPZ	0718	27.0	
24	+EPZ	0734	49.0	#- 1206
24	−EXZ	0734	53.7	
24	+EPZ	0811	18.2	
24	−EPZ	0930	6.2	
24	−EPZ	1115	5.2	
24	+EPZ	1115	11.4	
24	+EPZ	1143	20.4	#- 1207
24	+IpPZ	1143	29.5	#- 1207
24	−IPZ	1143	36.7	
24	ESH	1152	46.2	
24	−EPZ	1315	17.2	#- 1208
24	+EpPZ	1315	20.0	#- 1208
24	+EPZ	1341	36.7	
24	+EPZ	1341	51.8	
24	+EPZ	1354	20.0	
24	+IPZ	1417	31.9	
24	−EPZ	1417	43.7	
24	+EpPKPdfZ	1559	24.7	#- 1209
24	−EPKPabZ	1559	37.0	#- 1209
24	+EPZ	1805	0.0	
24	+EPZ	1955	28.0	
24	−EPZ	2238	21.4	
24	+EPZ	2238	28.4	
24	+EPZ	2238	31.5	
24	−EPZ	2320	33.0	#- 1210
24	+IPZ	2326	7.0	
24	+EPZ	2326	18.0	
24	−EPZ	2326	22.0	
24	+IPZ	2350	48.6	#- 1211
24	−IpPZ	2350	51.6	#- 1211
24	−IPcPZ	2350	54.4	#- 1211
24	−IXZ	2350	58.4	#- 1211
25	+EPZ	0243	13.0	
25	+EPZ	0250	13.0	
25	−EPZ	0334	46.0	
25	+EPZ	0346	12.0	#- 1212
25	+EPZ	0417	8.0	
25	+EPZ	0448	16.7	
25	+EPZ	0450	48.0	
25	+EPZ	0701	28.4	#- 1213
25	−EpPZ	0701	32.0	#- 1213
25	−EXZ	0702	18.0	#- 1213
25	+EPZ	0702	23.0	
25	+EPZ	0731	4.6	
25	+EPZ	0750	26.6	#- 1214
25	+EsPZ	0750	31.2	#- 1214
25	−EPZ	0822	33.4	
25	+EPZ	0902	33.0	
25	+EPZ	1014	33.4	
25	−EPZ	1136	48.2	#- 1215
25	+EXZ	1136	54.0	#- 1215
25	+EPZ	1314	48.0	
25	+IPZ	1326	9.6	#- 1216
25	−IXZ	1326	14.8	#- 1216
25	ESH	1336	38.0	#- 1216
25	+EPZ	1418	3.0	#- 1217
25	−IXZ	1418	7.8	#- 1217
25	−IXZ	1418	16.4	#- 1217
25	+EPZ	1612	31.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
25	+EPZ	1638	0.6	
25	+EPZ	1638	4.6	
25	−IPZ	1655	5.4	#- 1218
25	−IPcPZ	1655	8.6	#- 1218
25	−IPZ	1700	16.6	
25	ESH	1705	24.0	
25	+EPZ	1721	5.8	
25	+EPZ	2106	19.8	
26	+EPZ	0010	8.2	
26	+EPZ	0135	2.8	
26	−EPZ	0135	5.4	
26	+EPZ	0151	30.0	
26	+EPZ	0219	35.0	
26	+EPZ	0300	18.0	
26	−EPZ	0300	24.6	
26	+IPZ	0415	17.0	
26	+EPZ	0415	19.0	
26	+EPZ	0620	30.4	
26	−IPZ	0620	34.0	
26	+EPZ	0743	34.3	
26	−IPZ	0743	58.0	
26	−EPZ	0917	4.0	
26	+EPZ	0956	8.0	
26	+EPZ	0956	13.0	
26	+EPZ	1039	0.0	
26	−EPZ	1035	21.8	
26	+IPZ	1040	4.7	
26	−IPZ	1040	14.2	
26	+EPZ	1234	38.6	
26	−EPZ	1234	42.2	
26	−EPZ	1252	30.4	
26	+EPZ	1404	37.6	
26	+EPZ	1553	38.6	
26	+EPZ	1558	21.0	
26	−EPZ	1908	54.0	
26	+EPZ	1909	0.6	
26	−EPZ	2004	12.4	
26	−EPZ	2004	16.4	
26	+EPZ	2142	36.0	
27	+EPZ	0014	23.4	
27	−EPZ	0107	51.0	
27	−EPZ	0107	54.4	
27	−EPZ	0206	29.4	#- 1219
27	−IPZ	0206	31.2	#- 1219
27	+EPZ	0417	39.0	
27	+EPZ	0417	47.8	
27	+EPZ	0609	37.1	
27	+EPZ	0632	35.0	#- 1220
27	+EPZ	0632	41.0	#- 1220
27	+IPZ	0637	42.0	
27	+EPZ	0637	44.8	
27	+EPZ	0804	25.0	
27	−EPZ	0936	4.4	
27	−EPZ	1207	4.2	
27	+EPZ	1314	17.0	
27	+EPZ	1409	12.0	
27	−IPZ	1523	21.8	#- 1221
27	+EXZ	1523	25.2	#- 1221
27	−EPZ	1715	18.0	
27	+EPZ	1715	22.0	
27	+EPZ	1811	16.6	
27	+EPZ	1811	20.0	
27	+EPZ	1857	43.3	
27	+EPZ	1905	16.0	
27	+EPZ	1935	15.6	
27	+EPZ	1935	18.0	
27	+EPZ	2140	38.2	
27	+EPZ	2208	34.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
28	+EPZ	0014		4.0	
28	+EPZ	0122		24.0	
28	+EPZ	0122		25.5	
28	+EPZ	0220		28.0	
28	+EPZ	0601		19.0	
28	+EPZ	0731		43.0	
28	+EPZ	0731		47.4	
28	−EPZ	0747		45.0	#- 1222
28	+IpPZ	0747		48.2	#- 1222
28	+EPZ	0804		19.0	
28	−EPZ	0917		35.6	
28	−EPZ	1002		53.7	
28	−IPZ	1126		45.0	#- 1223
28	+EPZ	1309		34.0	
28	+EPZ	1401		1.7	
28	+IPZ	1401		4.6	
28	+EPZ	1839		47.0	
28	+EPZ	1839		52.0	
28	+EPZ	2012		17.0	
28	+EPZ	2012		29.0	
28	+EPZ	2135		55.0	
28	+EPZ	2135		58.0	
28	+EPZ	2252		0.0	
28	+EPZ	2252		4.5	
28	+IPZ	2301		20.0	
28	+EPZ	2303		41.0	
28	+EPZ	2324		11.4	
29	+EPZ	0119		39.5	
29	+EPZ	0324		4.8	
29	+EPZ	0324		9.0	
29	+EPZ	0325		25.0	
29	−EPZ	0422		38.4	
29	−EPZ	0813		1.0	
29	+EPZ	0813		4.6	
29	+EPZ	0909		0.8	#- 1224
29	+EPZ	1005		40.0	
29	+EPZ	1152		0.2	
29	+EPZ	1152		2.4	
29	−EXZ	1219		45.4	#- 1225
29	+EXZ	1350		41.0	#- 1226
29	+EXZ	1350		43.0	#- 1226
29	−EPZ	1354		5.4	
29	+EPZ	1636		34.0	#- 1227
29	+EPZ	1706		0.2	
29	−EPZ	1746		32.4	#- 1228
29	+EPZ	1946		6.0	
29	−EPZ	1946		9.0	
29	−IXZ	2317		24.6	#- 1229
29	−EpPZ	2317		29.5	#- 1229
29	−EPZ	2333		40.4	#- 1230
30	+EPZ	0033		44.9	
30	−EPZ	0109		32.6	#- 1231
30	+EpPZ	0109		39.6	#- 1231
30	+EXZ	0109		47.0	#- 1231
30	+EPZ	0144		17.2	
30	−IPZ	0144		20.0	
30	+EPZ	0222		17.8	
30	+EPZ	0222		22.2	
30	+EPZ	0540		22.0	
30	−IPZ	0607		40.3	#- 1232
30	−IXZ	0607		42.4	#- 1232
30	ESH	0617		18.2	#- 1232
30	+EPZ	0704		8.8	#- 1233
30	+EPZ	1019		40.0	#- 1234
30	−EpPZ	1019		41.6	#- 1234
30	+EXZ	1311		5.4	#- 1235
30	−EpPZ	1311		18.0	#- 1235
30	+EPZ	1657		54.8	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
30	+IPZ	22	53	42.0	#-1236
30	−EPcPZ	22	53	44.0	#-1236
Oct.1	+EPZ	00	04	3.9	
1	+EPZ	00	16	15.0	
1	+EPZ	02	04	20.6	
1	+EPZ	02	04	25.9	
1	−EPZ	03	03	52.1	
1	+EPZ	03	43	10.0	
1	+EPZ	03	43	18.2	
1	+IPZ	03	50	52.2	#-1237
1	+IPZ	04	24	14.4	#-1238
1	+EpPZ	04	24	43.0	#-1238
1	−EPZ	04	40	46.0	
1	+EPZ	05	11	14.0	
1	+EPZ	08	47	19.0	
1	+EPZ	08	47	35.4	
1	−EPZ	11	05	32.4	
1	+EPZ	11	05	34.0	
1	−EPZ	12	05	23.4	
1	−EPZ	12	05	26.0	
1	+EPZ	12	05	28.6	
1	+EPZ	13	29	30.9	
1	+EPZ	13	29	34.0	
1	+EPZ	15	14	29.0	
1	−EXZ	15	16	7.0	#-1239
1	−EPZ	15	57	21.0	
1	+EPZ	16	33	8.2	#-1240
1	+EsPZ	16	33	16.3	#-1240
1	+EPZ	18	13	29.0	
1	−EPZ	19	41	12.0	
1	−EPZ	20	14	44.8	#-1241
1	+EPcPZ	20	14	47.9	#-1241
1	−EPZ	22	45	23.2	
1	+IPZ	22	45	26.1	
1	−IPZ	22	45	31.4	
2	+EPZ	00	42	17.9	
2	+EPZ	01	09	45.6	
2	−EPZ	01	09	49.3	
2	+EPZ	01	18	50.0	
2	+IXZ	01	18	51.8	#-1242
2	+IpPZ	01	18	55.2	#-1242
2	−EPZ	01	25	27.0	#-1243
2	−EPZ	02	06	9.0	
2	+EPZ	02	06	16.0	
2	+EPZ	03	03	31.9	
2	+EPZ	03	03	36.4	
2	+EXZ	04	22	1.2	#-1244
2	+EPcPZ	04	22	4.0	#-1244
2	+EPZ	04	37	1.8	
2	−EPZ	04	37	3.4	
2	−EPZ	05	12	31.2	
2	+EPZ	05	42	11.0	
2	+EPZ	05	42	13.4	
2	−EPZ	06	47	43.7	
2	−EPZ	06	47	51.6	
2	+EPZ	08	51	59.0	
2	−IPZ	08	52	1.0	
2	+EPZ	09	09	28.0	
2	−EPZ	10	20	0.8	#-1245
2	−EPZ	12	22	23.0	
2	+EPZ	12	22	27.6	
2	+EPZ	14	24	30.0	
2	+EXZ	15	19	26.4	#-1246
2	+EPZ	16	16	10.6	
2	+EPZ	17	25	21.7	#-1247
2	+EPZ	17	59	28.4	
2	+EPZ	19	47	39.5	
2	+EPZ	19	47	41.4	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
2	+EPZ	2105		55.3	#-1248
2	−EPZ	2344		38.0	
3	+EPZ	0058		11.2	#-1249
3	+EPcPZ	0058		14.6	#-1249
3	−EPZ	0343		37.0	#-1250
3	+EpPZ	0343		41.0	#-1250
3	+EPZ	0403		1.0	
3	−IPZ	0403		6.6	
3	+EPZ	0427		37.6	
3	−EPZ	0626		13.0	
3	−EXZ	0626		33.0	#-1251
3	+EPZ	0815		35.0	
3	+EPZ	0907		14.6	
3	+EPZ	1424		37.0	
3	+EPZ	1424		41.4	
3	+EPZ	1518		28.4	
3	+EPZ	1537		12.0	#-1252
3	−EPZ	1704		37.4	
3	−IPZ	1744		18.0	#-1253
3	−IPcPZ	1744		25.0	#-1253
3	+IpPZ	1745		4.6	#-1253
3	+EpPKPdfZ	1806		47.0	#-1254
3	−EpPKPbcZ	1806		56.8	#-1254
3	−EPZ	1948		54.6	
3	−IPZ	1948		56.7	
3	+EPZ	2000		31.6	#-1255
3	+EsPZ	2000		38.0	#-1255
3	+EPZ	2152		15.2	#-1256
3	−EPcPZ	2152		19.7	#-1256
3	−EpPZ	2154		15.0	#-1256
3	−EPZ	2231		47.0	
3	+EPZ	2301		30.0	
4	−EPcPZ	0049		34.3	#-1257
4	−EPZ	0314		24.4	
4	−EPZ	0607		30.0	
4	+EPZ	0639		7.6	
4	+EPZ	0706		14.6	
4	−EPZ	0810		25.0	
4	−IPZ	0843		42.0	#-1258
4	−IpPZ	0843		50.8	#-1258
4	+EPZ	0914		12.8	
4	+EPZ	0914		16.0	
4	−EPZ	1047		33.4	#-1259
4	−EpPZ	1047		36.6	#-1259
4	+EPZ	1055		55.0	
4	−EPZ	1055		57.7	
4	−EPZ	1248		40.4	
4	−EPZ	1257		9.4	#-1260
4	−EpPZ	1257		29.4	#-1260
4	−EPZ	1404		33.0	
4	+EPZ	1505		14.0	
4	−EPZ	1733		22.4	#-1261
4	−EpPZ	1733		26.0	#-1261
4	+EsPZ	1733		27.4	#-1261
4	+EPZ	1737		41.9	#-1262
4	+EPZ	1803		37.0	#-1263
4	−EpPZ	1810		0.0	#-1264
4	+EPZ	1833		22.3	#-1265
4	+EpPZ	1833		27.3	#-1265
4	+EPZ	2010		36.0	
4	+EPZ	2017		7.0	
4	+EPZ	2128		32.6	
4	+EPZ	2132		7.0	
5	−EPZ	0104		17.2	
5	+EPZ	0142		32.0	
5	+EPZ	0515		37.1	
5	−EPZ	0541		14.8	#-1266
5	−EPcPZ	0541		18.1	#-1266

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
5	+EPZ	0619	31.9	
5	−EPZ	0619	37.0	
5	+EPZ	0620	0.4	
5	−EPZ	0620	3.2	
5	+EPZ	0642	30.4	#- 1267
5	+EPZ	0824	10.4	
5	+EPZ	0824	14.1	
5	+EPZ	0827	32.0	
5	+EPZ	0912	14.6	
5	+EPZ	0912	19.1	
5	+EPKPdfZ	0917	14.7	#- 1268
5	+EsPZ	1121	42.1	#- 1269
5	+EPcPZ	1122	12.0	#- 1270
5	−EpPZ	1122	19.4	#- 1270
5	+EsPZ	1122	29.9	#- 1270
5	+EPZ	1213	26.1	
5	+EPZ	1213	27.0	
5	+EPZ	1238	34.8	
5	−EPZ	1238	36.6	
5	+EPZ	1313	39.8	
5	−EPZ	1313	44.6	
5	+EPZ	1338	2.4	
5	−EPZ	1411	43.2	
5	−EPZ	1442	9.8	
5	+EPZ	1442	13.2	
5	−IPZ	1447	10.4	#- 1271
5	−IpPZ	1447	12.3	#- 1271
5	+EpPZ	1743	0.4	#- 1272
5	+EsPZ	1743	2.6	#- 1272
5	−EPZ	1902	15.0	
5	+EPZ	1949	24.4	
5	−EPZ	2003	17.6	
5	−EPZ	2048	25.8	
5	+EPZ	2102	2.6	#- 1273
5	−EPcPZ	2102	5.0	#- 1273
5	−EPZ	2202	5.4	#- 1274
5	+EPZ	2254	4.0	
5	−EPZ	2340	36.0	
5	+EPZ	2340	38.6	
5	−EPZ	2340	45.4	
6	+EXZ	0155	41.2	#- 1275
6	−IXZ	0155	43.4	#- 1275
6	+EPZ	0317	54.6	
6	+EPZ	0318	0.7	
6	+EPZ	0520	40.8	
6	−EPZ	0520	43.0	
6	−EPZ	0607	50.8	
6	+EXZ	0712	29.6	#- 1276
6	+EPZ	1033	40.0	
6	−EPZ	1033	43.0	
6	−EPZ	1211	33.8	
6	+EPZ	1300	5.4	#- 1277
6	+EPcPZ	1300	9.5	#- 1277
6	+EPZ	1415	22.2	
6	+EPZ	1415	25.0	
6	−EPZ	1516	22.8	
6	+EPZ	1607	16.0	
6	+EPZ	1607	17.2	
6	+EPZ	1626	27.4	#- 1278
6	−EsPZ	1626	32.0	#- 1278
6	+EPcPZ	1650	5.0	#- 1279
6	+EPZ	1655	57.0	
6	+EXZ	1656	16.0	#- 1280
6	+IPPZ	1656	35.0	#- 1280
6	+EPZ	1703	4.2	#- 1281
6	+EPZ	1728	55.2	#- 1282
6	+EPZ	1807	14.0	
6	+EPZ	1807	20.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
6	+EPZ	1923	1.4	
6	+EPZ	2131	11.5	#- 1283
6	−EPcPZ	2131	14.2	#- 1283
6	+EXZ	2131	29.9	#- 1283
6	−EPZ	2144	28.2	#- 1284
6	+EpPZ	2144	30.0	#- 1284
6	+EsPZ	2144	34.0	#- 1284
6	+EPcPZ	2144	49.8	#- 1284
6	+EPZ	2302	26.0	
7	+EPZ	0102	24.0	
7	+EPZ	0102	25.0	
7	−EPZ	0102	28.0	
7	+EPZ	0122	30.0	
7	+EPZ	0146	28.4	#- 1285
7	+EPZ	0215	56.6	
7	+EPZ	0316	9.4	
7	+EPZ	0316	15.0	
7	−EPZ	0612	2.3	
7	+EPZ	1001	33.2	
7	+EPZ	1001	35.4	
7	−EPZ	1001	40.2	
7	+EPZ	1207	21.0	
7	+EXZ	1345	17.0	#- 1286
7	+EPZ	1509	17.0	
7	−EPZ	1509	22.0	
7	+EPPZ	1533	38.0	#- 1287
7	+EPKiKPZ	1535	11.0	#- 1287
7	+EPZ	1610	48.0	
7	+EPZ	1610	52.6	
7	+EPZ	1733	13.0	
7	−EPZ	1733	14.8	
7	+EPZ	1733	18.6	
7	−EPZ	2018	5.3	
7	+EPZ	2334	38.6	
8	−EPZ	0011	7.3	
8	−EPZ	0213	41.0	
8	−EPZ	0244	24.6	
8	+EPZ	0252	2.0	
8	+EPZ	0330	19.0	
8	+EPZ	0330	27.4	
8	−EPZ	0415	3.7	
8	+EPZ	0507	14.4	
8	+EPZ	0535	29.6	
8	−EPZ	0535	33.4	
8	+EPZ	0631	35.0	
8	+EPZ	0713	20.0	#- 1288
8	−EPZ	0725	53.6	#- 1289
8	+EPZ	0734	25.0	
8	+EPZ	0734	31.0	
8	+EPZ	0734	38.3	
8	+EPZ	0851	29.0	#- 1290
8	−EpPZ	0851	34.4	#- 1290
8	+EPcPZ	0926	13.4	#- 1291
8	+EPZ	0928	2.8	
8	+EPZ	0928	48.0	
8	+EPZ	0943	53.2	
8	+EPZ	0950	35.8	
8	+EpPZ	0950	57.4	#- 1292
8	+EPZ	1001	36.5	
8	+EPZ	1001	38.6	
8	+EPZ	1034	16.4	
8	+EPZ	1051	17.0	
8	+EPPZ	1143	19.0	#- 1293
8	+EPZ	1224	9.0	
8	−EPZ	1314	35.6	
8	−IPZ	1347	50.8	#- 1294
8	−IpPZ	1347	53.8	#- 1294
8	+EPcPZ	1349	42.6	#- 1294

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
8	−EPZ	1358	15.0	
8	+EPZ	1513	53.5	
8	+EPZ	1611	14.0	
8	+EPZ	1840	0.3	
8	+EPZ	1850	21.8	#- 1295
8	−EPZ	1907	21.0	
8	+EPZ	1923	13.7	
8	+EPZ	2042	40.0	
8	+EPZ	2048	1.5	
8	+EPZ	2107	36.4	
8	+EPZ	2107	44.4	
8	+EPZ	2206	17.7	
8	+EPZ	2320	3.3	
8	−EPZ	2320	5.5	
9	+EPZ	0033	41.9	
9	+EPZ	0125	1.6	
9	+EPZ	0217	3.9	
9	+EPZ	0217	9.8	
9	−EPZ	0308	16.6	
9	−EPZ	0408	32.1	
9	+EPZ	0508	25.0	
9	+EPZ	0508	37.0	
9	+EPZ	0716	25.4	
9	+EPZ	0716	30.4	
9	+EPZ	0716	34.2	
9	+EPZ	0813	55.4	
9	+EPZ	0814	0.3	
9	+EPZ	1014	12.0	
9	+EPZ	1113	4.4	
9	+EPZ	1205	9.0	
9	+EPZ	1344	46.0	
9	−EPZ	1344	50.4	
9	−EPZ	1411	33.4	
9	+EPZ	1411	38.0	
9	−EPZ	1418	18.0	
9	+EPZ	1441	12.0	
9	+EPZ	1441	18.0	
9	+EPZ	1644	4.8	
9	−EPZ	1644	7.4	
9	−EPZ	1715	10.8	#- 1296
9	+EPcPZ	1715	20.0	#- 1296
9	−EPZ	1805	1.1	
9	+EPZ	1842	8.6	
9	+EPZ	1942	28.0	
9	−EPZ	1942	32.6	
9	+EXZ	2009	29.6	#- 1297
9	−EPZ	2242	2.0	
9	−EPZ	2242	9.6	
9	+EPZ	2319	13.4	
9	+EPZ	2319	27.0	
10	−EPZ	0050	27.9	
10	+EPZ	0104	15.2	
10	−EPZ	0104	29.0	
10	−EPZ	0142	29.0	
10	+EPZ	0207	37.0	
10	+EPZ	0303	10.9	
10	+EPZ	0343	49.0	
10	−EPcPZ	0343	59.0	#- 1298
10	+EpPZ	0344	34.0	#- 1298
10	ESH	0353	26.0	#- 1298
10	+EXZ	0414	22.0	
10	+EPZ	1305	43.0	
10	−EPZ	1305	47.4	
10	−EPZ	1511	29.0	
10	+EPZ	1511	36.9	
10	+EPZ	1520	23.0	#- 1299
10	+EpPZ	1520	38.0	#- 1299
10	−EPZ	1623	27.3	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
10	−EPZ	1623	29.0	
10	+EPZ	1703	25.0	
10	+EPZ	1703	28.8	
10	+EPZ	1716	31.0	
10	−EPZ	1818	11.6	
10	+EPZ	2017	12.0	
10	+EPZ	2312	14.0	
11	+EPZ	0034	33.2	
11	+EPZ	0041	6.6	
11	+EPZ	0156	9.0	#- 1300
11	−IpPZ	0156	19.9	#- 1300
11	−EsPZ	0156	24.2	#- 1300
11	+EPZ	0204	15.0	#- 1301
11	+EpPZ	0204	37.0	#- 1301
11	−EPZ	0258	4.2	#- 1302
11	+EPcPZ	0258	6.0	#- 1302
11	−EpPZ	0258	24.4	#- 1302
11	+EPZ	0343	49.0	#- 1303
11	+EPcPZ	0343	54.9	#- 1303
11	+EXZ	0344	10.0	#- 1303
11	+EPZ	0417	51.6	
11	−EPZ	0417	54.0	
11	+EPZ	0522	21.2	
11	+EPZ	0522	25.0	
11	+EPZ	0848	22.8	
11	+EPZ	0848	23.9	
11	+EPZ	0853	3.0	
11	+EXZ	0906	23.0	#- 1304
11	+EpPZ	0906	32.9	#- 1304
11	+EPZ	0941	15.0	
11	+EPZ	1005	25.0	
11	+EPZ	1005	30.4	
11	+EPZ	1114	17.2	
11	+EPZ	1114	23.0	
11	+EPZ	1146	19.4	
11	+EPZ	1209	22.6	
11	+EPZ	1259	8.8	#- 1305
11	+EPZ	1316	39.0	
11	+EPZ	1316	48.6	
11	−EpPZ	1324	49.0	#- 1306
11	−EPZ	1400	10.9	
11	−EPZ	1400	18.2	
11	−EPZ	1630	43.3	
11	−EPZ	1724	7.1	
11	+EPZ	1954	14.7	
11	+EPZ	2019	1.1	
11	−IPZ	2136	33.0	#- 1307
11	+IPcPZ	2136	44.8	#- 1307
11	ESH	2146	5.0	#- 1307
11	+EPZ	2209	2.0	
11	−EPZ	2209	5.2	
12	+EPZ	0001	13.0	
12	−EPZ	0001	18.5	
12	+EPZ	0019	5.0	
12	−EPZ	0019	16.0	
12	+EPZ	0118	1.0	
12	−EPZ	0137	26.6	
12	+EXZ	0224	29.0	#- 1308
12	+IPZ	0240	8.0	
12	−EPZ	0240	17.4	
12	−EPZ	0311	41.1	
12	−EPZ	0311	43.8	
12	+EPZ	0339	8.9	
12	+EPZ	0414	30.0	
12	−EPZ	0604	28.0	
12	+EPZ	0627	18.4	
12	+EPZ	0718	1.4	
12	+EPZ	1027	11.5	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
12	−EPZ	1105	12.0	
12	+EPZ	1105	16.6	
12	+EPdiffZ	1325	54.6	#-1309
12	+EpPdiffZ	1326	8.0	#-1309
12	ESH	1336	25.4	#-1309
12	+IXZ	1442	45.8	#-1310
12	+EPcPZ	1442	49.2	#-1310
12	−IPZ	1601	1.0	#-1311
12	+EXZ	1601	10.0	#-1311
12	−EPZ	1609	23.4	
12	+EPZ	1708	37.2	
12	−EPZ	1809	33.4	
12	+EPZ	1914	11.0	
12	+EPZ	2009	2.0	#-1312
12	+IPZ	2127	9.4	#-1313
12	+EsPZ	2127	13.4	#-1313
12	−EsPZ	2127	17.6	#-1313
13	+EPZ	0012	14.0	
13	+EPZ	0012	18.0	
13	+EPZ	0045	17.0	
13	−IPZ	0118	5.4	#-1314
13	ESH	0127	33.2	#-1314
13	+EPKiKPZ	0135	53.4	#-1315
13	+EPZ	0223	12.0	
13	+EPZ	0323	35.0	
13	+EPZ	0550	39.0	
13	+EPZ	0550	41.4	
13	+EPZ	0728	4.0	#-1316
13	−EPcPZ	0728	6.2	#-1316
13	+EsPZ	0728	25.0	#-1316
13	−EPZ	0914	8.0	
13	−EPZ	1104	0.0	
13	+EPZ	1104	2.0	
13	+EPZ	1123	24.0	
13	+EPZ	1704	24.0	
13	+EPZ	1704	36.0	
13	+EPZ	1745	1.3	
13	+EPcPZ	1745	7.4	#-1317
13	−IpPZ	1745	16.7	#-1317
13	+IsPZ	1745	24.0	#-1317
13	+EPZ	1804	23.1	
13	−EPZ	2108	37.0	
13	−EPZ	2148	4.0	#-1318
13	+EPZ	2243	16.2	
13	+EPZ	2243	20.2	
14	+EPZ	0005	38.5	
14	+EsPZ	0019	49.0	#-1319
14	+EPZ	0112	21.2	
14	+EPZ	0304	17.0	
14	+EPZ	0304	20.0	
14	−EPnZ	0415	8.0	#-1320
14	+IpPnZ	0415	11.0	#-1320
14	+EPcPZ	0543	32.2	#-1321
14	+EPZ	0627	5.6	
14	+EPZ	0709	9.0	
14	+EPZ	0805	13.7	
14	+EPZ	0934	34.0	
14	+EPZ	0934	34.8	
14	+EPZ	1054	7.4	
14	−EPZ	1223	19.0	
14	+EXZ	1401	51.6	#-1322
14	+EPZ	1621	3.2	#-1323
14	−EPcPZ	1621	5.2	#-1323
14	+EpPZ	1623	5.0	#-1323
14	+EPZ	1626	5.4	#-1324
14	+EXZ	1626	12.7	#-1324
14	+EPZ	1804	36.0	
14	+EpPZ	1843	2.0	#-1325

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
14	−EPZ	21	57	10.4	
14	+IPZ	21	57	13.2	
14	+EPZ	23	21	3.6	
14	+EPZ	23	21	14.0	
15	+EpPZ	00	08	32.0	#-1326
15	−EsPZ	00	08	36.6	#-1326
15	−EPZ	00	26	3.0	#-1327
15	−IsPZ	00	26	14.0	#-1327
15	ESH	00	37	31.8	#-1327
15	−IXZ	00	31	10.0	#-1328
15	−IPZ	00	33	1.2	#-1329
15	+EXZ	00	42	27.0	#-1330
15	+EpPZ	00	42	34.8	#-1330
15	+EsPZ	01	51	33.3	#-1331
15	+EPZ	02	14	21.0	#-1332
15	−EPcPZ	02	14	31.0	#-1332
15	+EPZ	02	55	35.0	#-1333
15	+EPZ	03	15	25.5	#-1334
15	−EPcPZ	03	15	26.9	#-1334
15	+EPZ	04	07	24.0	#-1335
15	−EPZ	04	35	2.2	
15	−EPZ	05	04	20.4	
15	+EPZ	08	05	2.9	
15	−EPZ	08	05	8.4	
15	+EPZ	08	49	54.0	#-1336
15	+EpPZ	08	49	57.3	#-1336
15	+EPZ	08	56	22.0	#-1337
15	+EPZ	09	05	51.0	#-1338
15	+EPZ	11	19	20.8	
15	−EPZ	13	01	5.0	#-1339
15	−EpPZ	13	01	9.6	#-1339
15	−EPcPZ	13	01	17.4	#-1339
15	+EPZ	15	14	10.0	
15	+EPZ	15	14	12.7	
15	+EPZ	15	14	23.0	
15	−EPZ	16	57	47.0	
15	−EPZ	16	57	50.0	
15	+EPZ	17	19	10.0	
15	−EPZ	17	19	14.4	
15	+EPZ	17	19	19.4	
15	−EPZ	17	25	16.2	#-1340
15	+EPcPZ	17	25	21.2	#-1340
15	−EPZ	17	52	34.0	
15	+EPZ	17	52	35.2	
15	−IPZ	17	52	41.6	
15	−IPZ	19	02	18.4	#-1341
15	−IPcPZ	19	02	21.5	#-1341
15	−EPZ	20	25	11.0	#-1342
15	−EPcPZ	20	25	17.3	#-1342
15	−EsPZ	20	25	26.0	#-1342
15	−EPZ	20	27	40.6	#-1343
15	−EPcPZ	20	27	48.3	#-1343
15	−EXZ	20	25	11.0	#-1344
15	−IPZ	21	57	43.2	#-1345
15	−IpPZ	21	57	46.7	#-1345
15	+IpPZ	21	57	50.4	#-1345
15	+EPZ	22	01	2.6	
15	+EPZ	22	01	10.4	
15	+EPZ	22	54	13.6	
15	−EPZ	22	54	22.7	
15	+EPZ	23	46	16.0	
15	−EPZ	23	46	21.0	
16	+EPZ	00	19	18.0	
16	+EpPZ	00	31	16.0	#-1346
16	+EPZ	02	43	5.4	
16	+EPZ	02	43	10.6	
16	+EPZ	03	35	5.8	
16	−EPZ	04	48	15.2	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
16	−EPZ	0619	11.0	
16	+EPZ	0744	47.4	
16	+EXZ	0744	54.0	#-1347
16	−IXZ	1044	4.8	#-1348
16	−IsPZ	1044	25.2	#-1348
16	ESH	1055	5.0	#-1348
16	+EPZ	1300	2.0	#-1349
16	+EpPZ	1300	11.2	#-1349
16	+EPZ	1419	12.8	
16	+EPZ	1419	21.0	
16	+EpPZ	1445	12.6	#-1350
16	+EPZ	1511	31.0	#-1351
16	+EPZ	1607	11.0	
16	+EPZ	1607	20.1	
16	−EPcPZ	1654	32.9	#-1352
16	+EPZ	1704	24.0	
16	+EPZ	1704	27.9	
16	+EPZ	1936	9.0	#-1353
16	−IpPZ	1936	16.0	#-1353
16	+EsPZ	1936	20.0	#-1353
16	+EPZ	2101	21.8	
16	+EXZ	2351	9.0	#-1354
17	+EPZ	0022	2.0	
17	+EPZ	0022	6.0	
17	+EPZ	0255	12.8	
17	−EPZ	0255	14.8	
17	+EPZ	0606	19.0	
17	+EPZ	0644	50.0	#-1355
17	−EXZ	0645	8.5	#-1355
17	+EPZ	0911	9.4	
17	+EPZ	0911	15.0	
17	−EPZ	1126	11.6	#-1356
17	−EPcPZ	1126	14.3	#-1356
17	+EpPZ	1126	30.0	#-1356
17	+EPZ	1346	10.6	
17	+EPZ	1346	13.6	
17	−EPZ	1346	20.0	
17	−EPZ	1401	9.2	
17	+EPZ	1401	13.0	
17	−EPZ	1610	54.2	#-1357
17	+EPZ	1625	1.4	
17	−EPZ	1625	5.6	
17	+EPZ	1745	18.0	
17	+EPZ	1745	20.0	
17	−EPZ	1801	24.8	
17	+EPZ	1801	28.0	
17	−IPZ	1807	1.2	
17	+EPZ	1923	11.4	
17	+EPZ	1957	7.0	
17	+EPZ	2021	24.6	#-1358
17	+EpPZ	2021	29.8	#-1358
17	+EPZ	2118	19.6	
17	+EPZ	2234	3.6	
17	−EPZ	2311	21.1	
17	−IPZ	2311	24.8	
17	+EPZ	2342	24.6	
18	−EPZ	0151	7.0	#-1359
18	−EPcPZ	0151	14.0	#-1359
18	+EPZ	0412	0.1	
18	−EPZ	0615	14.6	
18	−EPZ	0615	19.0	
18	+EPZ	0839	49.1	
18	+EPZ	1215	39.0	
18	+EPZ	1216	5.2	
18	+EPZ	1216	8.6	
18	+EPZ	1249	50.6	
18	−IPZ	1249	54.4	
18	−EPdiffZ	1332	6.4	#-1360

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
18	+EPZ	1356	3.0	
18	+EPZ	1356	9.2	
18	+EPZ	1633	28.2	
18	−EPZ	1813	54.2	#-1361
18	+EPcPZ	1813	56.0	
18	+EPZ	1910	36.4	
18	−EXZ	2101	53.4	#-1362
18	−EPZ	2141	34.4	
18	−EPZ	2141	54.0	
18	+EPZ	2208	20.0	
18	+EPZ	2208	24.0	
18	−EPZ	2300	31.2	#-1363
18	+EPZ	2322	14.2	
18	−EPZ	2322	22.0	
18	+EPZ	2324	25.7	
19	+EPZ	0104	0.0	
19	−EPZ	0104	2.6	
19	+EPZ	0150	26.4	#-1364
19	+EPZ	0315	29.4	
19	+EPZ	0315	31.2	
19	+EPZ	0315	35.4	
19	+EPZ	0504	21.8	
19	+EPZ	0504	25.6	
19	+EPZ	0504	36.0	
19	+EPZ	0739	31.0	
19	+EPZ	1018	10.2	
19	+EPZ	1018	11.4	
19	+EPZ	1150	19.4	#-1365
19	+EXZ	1350	5.4	#-1366
19	+EXZ	1350	16.0	#-1366
19	+EPZ	1623	25.0	
19	+EpPZ	1723	14.9	#-1367
19	−EPcPZ	1723	25.0	#-1367
19	−EXZ	1725	50.0	#-1367
19	+EPdiffZ	1811	5.4	#-1368
19	+EpPKiKPZ	1814	16.7	#-1368
19	+EXZ	1816	32.2	#-1368
19	+EPZ	1820	25.4	
19	+EPZ	1820	27.9	
19	−EPZ	2015	12.0	
19	−EPZ	2303	4.0	#-1369
19	+EsPZ	2303	20.0	#-1369
20	+EPZ	0026	45.0	
20	+EPZ	0131	23.4	
20	+EPZ	0131	26.0	
20	+EPZ	0220	38.0	
20	+EPZ	0305	20.5	
20	+EPZ	0305	23.0	
20	+IPZ	0413	21.4	#-1370
20	−IPcPZ	0413	24.4	#-1370
20	ESH	0422	52.4	#-1370
20	+EPZ	0613	24.4	
20	+EPZ	0613	29.4	
20	+EPZ	0711	33.0	
20	−EPZ	0751	32.6	
20	−EPZ	0751	35.0	
20	+EPZ	0816	35.8	
20	+EXZ	0823	5.0	#-1371
20	+EPZ	1027	32.0	
20	−EPZ	1027	37.0	
20	+EPZ	1120	29.4	
20	+EXZ	1224	26.7	#-1372
20	+EPZ	1322	51.4	#-1373
20	+EPnPnZ	1323	50.0	#-1373
20	+EXZ	1323	54.0	#-1373
20	+EPcPZ	1325	49.2	#-1373
20	+EPZ	1419	46.0	
20	+EPZ	1419	53.3	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
20	+IPZ	1420		4.0	
20	+EPZ	1420		8.0	
20	ESH	1434		24.5	
20	−EPZ	1509		40.0	
20	+EPZ	1509		44.8	
20	+EXZ	1901		10.6	#-1374
20	+EPcPZ	1901		14.0	#-1374
20	+EpPZ	1901		23.3	#-1374
20	−EXZ	1937		18.8	#-1375
20	+EPKiKPZ	2003		24.0	#-1376
20	+EPZ	2049		54.7	
20	+EPZ	2050		1.2	
20	+EPZ	2237		15.2	#-1377
20	−EPcPZ	2237		17.2	#-1377
20	+EpPZ	2237		34.9	#-1377
20	−EPZ	2314		0.0	
20	+EXZ	2316		54.0	#-1378
20	+EPZ	2331		24.0	
20	+EPZ	0052		1.7	
20	+EPZ	0052		9.4	
20	+EPZ	0241		14.0	
20	+EPdiffZ	0241		28.0	#-1379
20	+IPZ	0414		28.8	#-1380
20	−EPcPZ	0414		31.2	#-1380
21	+EPZ	0512		28.0	
21	+EPZ	0512		34.0	
21	−EPZ	0540		4.0	#-1381
21	+EPZ	0545		21.0	
21	−EPZ	0721		21.4	
21	+EpPZ	0803		23.0	#-1382
21	+EPZ	1001		2.8	
21	+EPZ	1338		1.8	
21	+EPZ	1338		7.6	
21	+EPZ	1401		12.0	#-1383
21	−EpPZ	1401		16.0	#-1383
21	−EsPZ	1401		18.8	#-1383
21	+EPZ	1527		17.0	
21	−EPZ	1542		25.0	
21	+EPZ	1643		15.0	
21	−EPZ	1733		18.6	#-1384
21	+EpPZ	1733		27.4	#-1384
21	−IPZ	1827		47.1	#-1385
21	+EpPZ	1827		52.3	#-1385
21	+EPZ	2005		50.2	#-1386
21	−EsPZ	2006		3.0	#-1386
21	−EPZ	2208		1.4	
21	−EPZ	2208		4.6	
21	−EPZ	2313		22.4	
21	−EPZ	2336		8.0	
21	+EPZ	2336		20.0	
22	+EXZ	0138		7.2	#-1387
22	+EXZ	0349		6.4	#-1388
22	−EPZ	0402		8.0	
22	−EPZ	0553		6.0	#-1389
22	−EpPZ	0553		10.8	#-1389
22	+EPZ	0638		13.7	
22	+EPZ	0638		19.5	
22	+EPcPZ	0952		15.4	#-1390
22	−EsPZ	0952		18.5	#-1390
22	+EPZ	0954		8.0	
22	+EPZ	1106		25.5	
22	−EPZ	1123		14.8	
22	+EPZ	1203		11.9	
22	−EPZ	1203		12.4	
22	+EPZ	1319		5.0	
22	+EPZ	1349		52.0	
22	−EPZ	1350		1.5	
22	+EPZ	1421		29.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
22	−EPZ	1623		11.4	
22	+EPZ	1623		14.5	
22	+EPZ	1727		5.0	#- 1391
22	+IPZ	1727		9.2	#- 1391
22	−IpPZ	1727		11.4	#- 1391
22	+EPZ	1807		2.2	
22	−EPZ	1817		3.4	
22	+EPZ	1845		53.0	
22	+EPZ	1854		4.0	
22	−IPZ	2034		44.5	
22	+EPZ	2034		50.2	
22	+EPZ	2107		6.0	#- 1392
22	+EXZ	2128		56.0	#- 1393
22	−IPcPZ	2128		57.6	#- 1393
23	−EPZ	0301		14.2	
23	+EPZ	0406		28.0	
23	−EPZ	0439		7.8	
23	+EPZ	0736		45.0	
23	−EPZ	0736		49.4	
23	+EXZ	0835		40.0	
23	−IpPZ	0836		22.8	#- 1394
23	ESH	0845		50.0	#- 1394
23	+EPZ	0925		21.0	
23	+EPZ	0943		8.6	
23	+EPZ	1028		49.8	
23	+EPZ	1052		24.0	
23	+EPZ	1052		28.0	
23	+EPZ	1117		11.6	
23	−EPZ	1142		58.6	
23	+EPZ	1156		16.7	
23	+EPZ	1228		30.9	
23	+EPZ	1403		23.0	
23	+EPZ	1403		31.0	
23	+EPZ	1615		2.4	
23	+EPZ	1644		8.4	#- 1395
23	+EPcPZ	1644		11.0	#- 1395
23	+EPZ	1738		25.4	
23	+EPZ	1738		27.0	
23	+EPZ	1821		37.0	
23	−EPZ	2128		16.6	
23	−EPZ	2128		18.2	
23	+EPZ	2128		20.7	
23	+EPZ	2143		23.0	
23	+EPZ	2143		30.8	
23	−EPZ	2247		23.0	#- 1396
23	+EpPZ	2247		25.0	#- 1396
23	+EsPZ	2247		27.0	#- 1396
24	−EPZ	0002		6.0	
24	−IPZ	0037		30.4	#- 1397
24	−IPcPZ	0037		40.0	#- 1397
24	+IpPZ	0037		46.0	#- 1397
24	+EPZ	0115		4.0	
24	−EPZ	0115		8.4	
24	+EPZ	0115		26.0	
24	+EPKPdfZ	0156		55.6	#- 1398
24	+EPZ	0204		48.7	
24	+EPZ	0204		50.0	
24	+EPZ	0204		53.2	
24	+IPZ	0230		43.0	
24	−IPZ	0230		45.4	
24	+EPZ	0439		38.0	
24	+EPZ	0552		8.8	
24	−EPZ	0723		1.8	
24	+EPZ	0737		37.0	
24	+EPZ	0918		20.0	
24	−EPZ	0918		25.6	
24	+EPZ	0954		36.6	
24	+EPZ	1139		46.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
24	−EPZ	1334		32.0	
24	+EPZ	1513		16.9	
24	+EPZ	1513		27.2	
24	−EPZ	1612		25.0	
24	−EPZ	1810		39.8	#- 1399
24	+EpPZ	1810		49.0	#- 1399
24	−IPZ	1930		28.8	#- 1400
24	−IPZ	1930		30.0	#- 1400
24	−IpPZ	1930		35.2	#- 1400
24	+EPZ	2013		16.0	#- 1401
24	+EPZ	2045		4.4	#- 1402
24	−IPcPZ	2045		8.0	#- 1402
24	−IpPZ	2045		36.6	#- 1402
24	ESH	2055		23.6	#- 1402
24	+EPZ	2106		0.4	
24	+EPZ	2106		4.6	
24	+EPZ	2215		55.0	
24	+EPZ	2216		1.0	
25	−EPZ	0012		48.1	#- 1403
25	−EXZ	0012		50.9	#- 1403
25	+EPZ	0039		11.0	
25	+EPZ	0039		25.0	
25	+EPZ	0039		29.0	
25	−EPZ	0233		36.8	
25	+EPZ	0334		22.0	#- 1404
25	+EpPZ	0334		27.6	#- 1404
25	+EPZ	0514		29.6	
25	−EPZ	0748		26.8	
25	+EPZ	0748		28.7	
25	+EPZ	0848		13.0	#- 1405
25	−EPcPZ	0848		17.6	
25	−EPZ	0927		2.7	#- 1406
25	−EpPZ	0927		6.0	
25	−EPZ	1645		36.0	
25	−EPZ	1645		37.0	
25	−IPKPdfZ	1729		23.8	#- 1407
25	−IpPKPdfZ	1729		35.2	#- 1407
25	−IsPKPdfZ	1729		41.4	#- 1407
25	−EPZ	1722		37.0	#- 1408
25	−EpPZ	1722		42.0	#- 1408
25	+EPcPZ	1723		1.2	#- 1408
25	−IPdiffZ	1738		44.4	#- 1409
25	−IXZ	1743		50.0	#- 1410
25	+EPZ	1745		49.0	
25	+EPZ	1807		22.4	#- 1411
25	−EPcPZ	1807		26.4	#- 1411
25	+EPZ	1851		7.4	#- 1412
25	+EPcPZ	1851		12.0	#- 1412
25	+IPKPdfZ	2146		41.0	#- 1413
25	+EpPKiKPZ	2146		49.0	#- 1413
25	−EPZ	2158		6.6	#- 1414
25	−IpPZ	2158		30.0	#- 1414
25	ESH	2203		5.8	#- 1414
25	+IScPZ	2204		28.0	#- 1414
26	+EPZ	0113		40.2	
26	+EPZ	0113		44.0	
26	−EPZ	0219		0.2	
26	+EPZ	0219		5.4	
26	+EPZ	0219		17.4	
26	+EPZ	0615		44.0	
26	+EPZ	0615		47.0	
26	+EPZ	1116		11.0	
26	+IPZ	1329		17.8	#- 1415
26	−IPcPZ	1329		19.0	#- 1415
26	+EXZ	1507		29.0	#- 1416
26	−EPcPZ	1507		35.0	#- 1416
26	+EPZ	1847		14.6	
26	+EPZ	2220		41.0	#- 1417

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
26	+EPZ	23	06	31.0	
26	+EPZ	23	50	13.6	
27	−EPZ	00	00	25.2	
27	−EPZ	00	00	28.0	
27	+EPZ	00	02	33.0	
27	−EPZ	00	02	42.2	
27	+EPZ	00	09	53.8	
27	+EPZ	01	54	10.0	
27	+EPZ	05	24	30.4	
27	−EPZ	05	24	34.0	
27	+EPZ	07	05	36.1	
27	+EPZ	07	05	40.2	
27	+EPZ	09	49	22.4	
27	+EPZ	09	49	40.0	
27	−EPZ	12	16	0.8	
27	+EPZ	12	16	2.9	
27	+EXZ	12	21	29.2	#- 1418
27	−EPZ	14	01	5.4	#- 1419
27	+EPZ	15	40	29.8	
27	−EPZ	15	40	35.0	
27	−EPZ	15	40	41.0	
27	+EPZ	16	10	7.0	
27	+EPZ	16	10	20.0	
27	+EXZ	17	12	1.8	#- 1420
27	+EXZ	18	32	9.6	#- 1421
27	+EXZ	18	34	20.9	#- 1421
27	+EPZ	19	27	19.0	
27	+EPZ	20	41	15.0	
27	+EPZ	20	41	21.5	
27	−EPZ	22	34	27.6	
27	+EPZ	22	34	45.0	
27	+IPZ	22	34	46.5	
27	+EPZ	23	16	10.0	
27	+EPZ	23	16	13.4	
28	+EPZ	00	14	19.5	
28	+IPZ	01	50	24.7	#- 1422
28	−IXZ	01	50	29.8	#- 1422
28	+EPZ	02	12	2.9	
28	+EPZ	03	34	43.8	
28	+EPZ	03	34	46.5	
28	−EPZ	04	05	27.4	
28	+EPZ	05	00	51.5	
28	−EpPZ	05	01	30.0	
28	−EPZ	05	19	1.0	
28	+EPZ	05	19	5.8	
28	+EPZ	05	19	10.0	
28	+EPZ	05	46	35.0	
28	+EPZ	05	46	40.0	
28	+EPZ	06	43	35.6	
28	+EPZ	06	43	37.8	
28	+EPZ	06	43	47.2	
28	+EPZ	07	05	2.0	
28	+EPZ	07	05	8.6	
28	+EPZ	07	47	22.4	#- 1423
28	+EpPZ	07	47	36.0	#- 1423
28	+EPZ	08	48	25.6	
28	−EPZ	08	48	29.7	
28	+EPZ	09	15	6.0	
28	+EPZ	09	15	11.0	
28	+EPZ	11	47	28.4	
28	+EPZ	11	47	34.0	
28	−EPZ	12	03	15.8	
28	+EPZ	12	03	19.7	
28	+EPZ	12	07	46.4	#- 1424
28	+EPcPZ	12	07	50.3	#- 1424
28	+EPZ	13	15	21.0	
28	+EPZ	14	09	10.7	
28	+EPKPdfZ	15	14	7.4	#- 1425

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
28	−EPKPbcZ	1514	8.5	#-1425
28	+IPKPabZ	1514	10.0	#-1425
28	−EPZ	1627	4.0	
28	+EPZ	1627	6.9	
28	+EPZ	1636	36.0	#-1426
28	+EPZ	1940	26.0	#-1427
28	+EpPZ	1940	56.6	#-1427
28	+IPZ	2014	31.4	#-1428
28	−EPcPZ	2014	35.2	#-1428
28	+EpPZ	2014	44.2	#-1428
28	−EPZ	2042	10.0	#-1429
28	+EXZ	2042	30.6	#-1429
28	+EPZ	2115	35.0	
29	+EPZ	0223	9.0	
29	+EPZ	0351	31.0	
29	+EPZ	0351	44.2	#-1430
29	+EPZ	0429	30.0	#-1431
29	+EpPZ	0429	33.4	#-1431
29	+EPZ	0746	25.2	
29	+EPZ	0746	31.6	#-1432
29	−EPZ	0746	34.0	#-1432
29	−IPZ	0834	0.6	#-1433
29	−IPcPZ	0834	6.0	#-1433
29	−IpPZ	0834	19.0	#-1433
29	+EPZ	0928	41.8	
29	+EPZ	1013	51.2	
29	−IPZ	1045	43.0	#-1434
29	−IpPZ	1045	45.2	#-1434
29	−IsPZ	1045	48.2	#-1434
29	−IPZ	1113	37.0	#-1435
29	−IPcPZ	1113	38.8	#-1435
29	ESH	1123	25.0	#-1435
29	+IPZ	1303	14.6	#-1436
29	+EPcPZ	1303	18.2	#-1436
29	+EpPZ	1303	47.2	#-1436
29	+EPZ	1341	22.0	
29	+EXZ	1558	26.0	#-1437
29	−EPcPZ	1558	29.4	#-1437
29	+EpPZ	1558	53.8	#-1437
29	+EPZ	1625	42.4	
29	+EPZ	1724	39.9	
29	+EPZ	1724	42.4	
29	+EPZ	1807	17.4	
29	+EPZ	1836	38.8	
29	+EPZ	1836	40.5	
29	−EPZ	2003	3.0	
29	+EXZ	2032	45.0	#-1438
29	−IXZ	2035	55.0	#-1438
29	+EXZ	2048	40.2	#-1439
29	−EPZ	2304	29.2	
29	+EPZ	2304	35.0	
30	+EPZ	0012	25.0	
30	+EPZ	0109	29.4	
30	−IXZ	0239	48.6	#-1440
30	−IpPZ	0239	57.6	#-1440
30	ESH	0248	30.0	#-1440
30	+IPZ	0240	7.2	
30	−IPZ	0240	24.2	
30	−EXZ	0302	25.6	#-1441
30	−IpPZ	0302	31.2	#-1441
30	−IsPZ	0302	6.0	#-1441
30	+EXZ	0343	45.0	#-1442
30	+EXZ	0343	50.4	#-1442
30	−EPZ	0548	28.2	#-1443
30	+EPcPZ	0548	31.8	#-1443
30	−EPZ	0605	36.4	
30	−EPZ	0738	12.0	
30	+EPZ	0811	0.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
30	+IPZ	0905		34.3	#-1444
30	−EPcPZ	0905		38.0	#-1444
30	+EPZ	0931		32.0	
30	+EPZ	0931		35.0	
30	−EPZ	1016		7.4	
30	−EPZ	1110		26.0	
30	+EPZ	1126		53.8	
30	+EPZ	1210		7.4	
30	−EPZ	1411		20.6	#-1445
30	+EPZ	1728		14.0	
30	+EPZ	2009		45.8	
30	−EPZ	2109		43.0	
30	+EPZ	2138		4.4	
30	+EPcPZ	2157		23.0	#-1446
30	+EPZ	2343		9.6	
31	+EPZ	0045		58.0	#-1447
31	+EPcPZ	0046		4.5	#-1447
31	+IpPZ	0046		6.5	#-1447
31	+EPZ	0216		10.4	#-1448
31	−EXZ	0322		38.4	#-1448
31	−EXZ	0322		40.6	#-1448
31	−EPZ	0503		39.2	#-1449
31	+EPcPZ	0503		42.0	#-1449
31	+EPZ	0536		49.2	
31	+EPZ	0646		10.0	#-1450
31	+EPcPZ	0646		37.1	#-1450
31	−EXZ	0907		40.3	#-1451
31	−EPZ	0911		15.0	#-1452
31	+EPZ	1033		53.0	
31	+EPZ	1034		2.0	
31	+EPZ	1221		1.0	
31	−IPPZ	1221		5.2	#-1453
31	+EPZ	1410		22.4	
31	−EPKPdfZ	1520		14.4	#-1454
31	+EPZ	1528		17.0	
31	−EPZ	1528		26.5	
31	+EPZ	1622		7.0	
31	+EPZ	1933		26.0	#-1455
31	+EpPZ	1933		28.5	#-1455
31	+EPnPnZ	1933		39.6	#-1455
31	+EPZ	2009		35.4	
31	+EPZ	2009		39.0	
31	−EPZ	2312		13.0	
31	−IPZ	2315		1.0	#-1456
31	−IpPZ	2315		4.6	#-1456
31	ESH	2324		4.2	#-1456
31	+EPZ	2343		5.0	
31	−IPZ	2343		13.0	
Nov.1	+EPZ	0018		29.8	
1	+EPZ	0037		31.8	#-1457
1	+EPZ	0210		17.4	
1	+IPZ	0335		51.2	#-1458
1	−IPcPZ	0335		52.4	#-1458
1	+EPZ	0416		3.0	#-1459
1	+EsPZ	0416		6.7	#-1459
1	+EPZ	0444		23.4	
1	+EPZ	0444		26.2	
1	+EPZ	0527		45.2	
1	−IPZ	0527		46.2	
1	+EsPZ	0620		11.0	#-1460
1	+EPZ	0620		24.7	
1	+EpPZ	0650		34.8	#-1461
1	+EPZ	0650		39.8	#-1461
1	+EpPZ	0650		43.2	#-1461
1	−EPZ	0825		10.2	
1	−EPZ	0825		15.0	
1	+EPZ	1057		22.9	
1	+EPZ	1057		27.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
1	+EpPZ	1137	22.0	#-1462
1	+EPZ	1137	26.4	#-1462
1	−EPZ	1202	35.3	
1	−EPZ	1314	59.0	
1	−EPZ	1315	58.0	
1	+EPZ	1408	0.0	
1	+EPZ	1649	20.8	
1	+EXZ	1649	25.4	#-1463
1	−EPZ	1713	14.6	
1	−EXZ	1740	25.2	#-1464
1	+EPZ	1805	56.5	
1	+EPZ	1806	7.3	
1	−EPZ	1909	17.0	#-1465
1	−EpPZ	1909	21.6	#-1465
1	+EPZ	1934	4.0	
1	−EPZ	2041	4.8	
1	+EPZ	2041	16.0	
1	+EPZ	2109	8.0	
1	+EPZ	2208	45.0	
1	+EPZ	2255	46.0	#-1466
1	−EPcPZ	2255	48.0	#-1466
2	+EPZ	0140	13.0	
2	+EPZ	0140	22.0	
2	+EPZ	0214	39.4	
2	−EPZ	0530	15.6	
2	−EPZ	0530	19.0	
2	+EPZ	0548	50.0	
2	−EPZ	0548	52.4	
2	+EPZ	0759	27.0	
2	+EPZ	0759	33.0	
2	+EPZ	0915	7.0	
2	+EPZ	1213	29.0	
2	+EPZ	1504	22.0	
2	−IPZ	1605	21.3	#-1467
2	+IPcPZ	1605	25.2	#-1467
2	+EPZ	1651	35.0	#-1468
2	+EPZ	1730	25.4	#-1469
2	+EPZ	1808	35.0	
2	−EPZ	1808	40.0	
2	+IPZ	1906	40.0	#-1470
2	−IPcPZ	1906	42.2	#-1470
2	−IpPZ	1906	44.8	#-1470
2	+IPZ	1909	6.0	#-1471
2	−EPcPZ	1909	7.0	#-1471
2	+EXZ	1918	48.2	#-1472
2	−IPZ	1926	28.6	#-1473
2	+EPZ	2217	25.4	
2	−EPZ	2225	35.6	
2	+EXZ	2238	22.0	#-1474
2	+EXZ	2256	30.0	#-1475
3	+IPZ	0020	15.6	#-1476
3	+EsPZ	0020	23.0	#-1476
3	+EPZ	0105	11.8	
3	+EPZ	0155	12.6	#-1477
3	+EPcPZ	0155	25.4	#-1477
3	+EPZ	0206	45.0	#-1478
3	+EsPZ	0206	49.7	#-1478
3	+EPcPZ	0247	16.0	#-1479
3	+EpPZ	0247	24.4	#-1479
3	+EsPZ	0247	33.0	#-1479
3	−IPZ	0255	47.6	#-1480
3	+IPcPZ	0255	51.1	#-1480
3	+IsPZ	0256	24.2	#-1480
3	ESH	0306	35.4	#-1480
3	+EPnZ	0532	1.4	#-1481
3	+EXZ	0540	43.0	#-1482
3	−EXZ	0541	1.0	#-1482
3	+EPZ	0603	44.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
3	+EPZ	0603		47.0	
3	−EPZ	0702		18.2	
3	+EPZ	0706		24.8	#-1483
3	+EXZ	0706		44.0	#-1484
3	−EPPZ	0914		17.2	#-1485
3	+IPZ	1021		49.0	#-1486
3	−IpPZ	1021		51.4	#-1486
3	+IPZ	1115		49.2	#-1487
3	−IPcPZ	1115		51.8	#-1487
3	+EpPZ	1117		48.8	#-1487
3	−IXZ	1125		27.0	#-1487
3	−EPZ	1201		12.0	
3	−EPZ	1216		34.0	
3	−EXZ	1231		36.6	#-1488
3	−EPZ	1231		14.8	#-1489
3	−EXZ	1325		27.0	#-1490
3	−EPZ	1503		1.4	
3	+EXZ	1521		36.6	#-1491
3	+EPZ	1722		53.0	#-1492
3	−EPcPZ	1722		55.4	#-1492
3	+EPZ	1752		40.0	#-1493
3	−IpPZ	1752		57.0	#-1493
3	+EPZ	2116		19.0	
3	−EPZ	2200		5.4	#-1494
3	+EPZ	2242		14.7	
3	+EPZ	2248		21.6	
4	+EPZ	0117		26.6	#-1495
4	−EPZ	0124		13.0	
4	+EPZ	0200		49.4	
4	−IPZ	0200		51.2	
4	−EPZ	0236		12.2	
4	+EPZ	0236		17.4	
4	+EPZ	0403		42.6	
4	+EPZ	0439		35.5	
4	−EPZ	0633		30.9	
4	−EPZ	0633		39.0	
4	+EPZ	0648		27.5	
4	+EPZ	1103		1.8	
4	+IPZ	1103		3.2	
4	+EPZ	1309		22.0	#-1496
4	+EPcPZ	1309		25.6	#-1496
4	+EsPZ	1309		44.8	#-1496
4	−EPZ	1344		41.0	
4	+EPZ	1354		0.0	
4	+IPZ	1419		19.7	
4	+IPZ	1419		26.4	
4	+EPZ	1511		33.0	
4	−EPZ	1513		0.0	
4	+EPZ	1553		27.6	#-1497
4	+EpPZ	1553		41.4	#-1497
4	+EPZ	1605		2.3	
4	+EPZ	1629		26.0	
4	+EPZ	1642		49.9	
4	−EPZ	1642		51.8	
4	+EPZ	1737		21.2	
4	+EPZ	1737		29.9	
4	+EXZ	1907		42.0	#-1498
4	+EXZ	1924		31.0	#-1499
4	+EPZ	2046		10.1	
4	+EPZ	2142		6.4	
5	−EPZ	0120		19.0	
5	+EPZ	0120		20.0	
5	+IPZ	0200		7.8	#-1500
5	−EXZ	0200		20.0	#-1500
5	+EPZ	0330		46.8	
5	+EPZ	0445		48.5	
5	−EPZ	0445		53.1	
5	+IpPZ	0543		3.4	#-1501

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
5	+IPcPZ	0543		7.0	#-1501
5	+EPZ	0648		11.9	
5	+EPZ	0648		15.0	
5	+EPZ	0648		19.0	
5	−EpPZ	0948		37.4	#-1502
5	−EPZ	1155		37.4	#-1503
5	+EPZ	1131		20.6	
5	−EPZ	1427		8.3	
5	−EPZ	1455		24.8	#-1504
5	+EPZ	1550		13.2	
5	−EPZ	1736		0.0	#-1505
5	+EsPZ	1736		11.4	#-1505
5	+EXZ	1746		18.9	#-1506
5	−EPZ	1829		37.0	#-1507
5	+EpPZ	1830		47.8	#-1507
5	+EPZ	2059		7.0	#-1508
5	−EPcPZ	2059		15.4	#-1508
6	+IPZ	0109		6.6	
6	+EPZ	0109		9.6	
6	−EPKPdfZ	0132		5.4	#-1509
6	−EpPKPdfZ	0132		16.6	#-1509
6	+EPZ	0218		32.0	
6	+EPZ	0320		26.0	
6	−EPZ	0444		31.0	
6	+EPZ	0615		28.0	
6	+EPZ	1101		7.1	
6	+EPZ	1201		37.0	
6	+EPZ	1201		39.7	
6	+EPZ	1722		35.4	
6	−EPZ	1722		37.4	
6	+EPZ	2013		9.2	
6	−EPZ	2013		11.4	
6	+EPZ	2237		1.0	
7	+EPZ	0001		44.8	
7	−IPZ	0001		48.0	
7	−IPZ	0001		52.3	
7	+EPZ	0325		48.3	
7	+EPZ	0325		54.0	
7	−EPZ	0326		1.2	
7	+EPZ	0450		28.0	
7	+EPZ	0519		8.9	
7	+EXZ	0725		55.2	#-1510
7	−EPZ	0814		7.4	
7	−EPZ	0814		13.0	
7	+EPZ	1025		18.4	
7	+EPZ	1100		40.8	#-1511
7	+EPZ	1207		25.4	
7	+EPZ	1207		30.0	
7	+EXZ	1258		10.4	#-1512
7	+EXZ	1349		29.1	#-1513
7	+EpPZ	1349		34.6	#-1513
7	+EPZ	1515		30.0	
7	−EPZ	1515		34.4	
7	+EPZ	1554		6.0	
7	+EPZ	1554		10.1	
7	+EPZ	1658		44.0	#-1514
7	+IXZ	1658		47.7	#-1514
7	+IpPZ	1659		7.8	#-1514
7	+IPZ	1711		31.5	#-1515
7	+EpPZ	1711		38.6	#-1515
7	+EPcPZ	1733		27.0	#-1516
7	+EPZ	1753		36.8	
7	−EPZ	1801		56.0	
7	+EPZ	1851		40.0	
7	−EPZ	1851		56.0	#-1517
7	+EPZ	1954		10.0	
7	+EPZ	2026		56.0	#-1518
7	+EPcPZ	2027		1.0	#-1518

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
7	+EPZ	2056	15.0	
7	+EPZ	2253	5.4	
8	+EPZ	0225	5.0	
8	+EPZ	0439	13.9	
8	+EPZ	0439	29.4	
8	+EPZ	0517	38.0	
8	−EPZ	0611	16.0	
8	+EPZ	0729	6.0	
8	+EPZ	0815	5.8	
8	−EPZ	0815	7.6	
8	+EXZ	1002	9.6	#- 1519
8	+EPZ	1109	8.4	
8	+EPZ	1109	21.4	
8	+EPZ	1241	46.8	#- 1520
8	+EpPZ	1241	49.6	#- 1520
8	+EPZ	1404	16.0	
8	+EPZ	1404	22.5	
8	+EPZ	1430	12.8	#- 1521
8	+EPZ	1515	30.7	
8	−EsPZ	1526	27.6	#- 1522
8	−EPZ	1844	23.6	#- 1523
8	−EPcPZ	1844	26.4	#- 1523
8	+EPZ	1921	10.6	
8	−EPZ	2020	23.5	
8	+EPZ	2109	14.2	
8	+EPZ	2109	17.4	
9	−EPdiffZ	0034	29.8	#- 1524
9	−EXZ	0034	35.0	#- 1524
9	+EPZ	0310	4.0	
9	+EPZ	0310	11.4	
9	+EPZ	0320	4.8	
9	−EXZ	0358	16.0	#- 1525
9	+IpPZ	0358	20.4	#- 1525
9	−IsPZ	0358	22.0	#- 1525
9	+EPZ	0609	30.0	#- 1526
9	+IpPZ	0609	33.0	#- 1526
9	+EPZ	0821	13.1	
9	−EPZ	0821	15.2	
9	−EPZ	0916	9.5	
9	+EPZ	1110	29.8	#- 1527
9	+EPcPZ	1110	33.6	#- 1527
9	+EPZ	1220	17.4	
9	+IPZ	1337	42.6	#- 1528
9	−IPcPZ	1337	51.4	#- 1528
9	+EpPZ	1338	7.6	#- 1528
9	+EPZ	1505	30.0	#- 1529
9	−EpPZ	1505	33.8	#- 1529
9	−IsPZ	1505	36.6	#- 1529
9	ESH	1515	33.3	#- 1529
9	+EpPZ	1515	3.8	#- 1530
9	−EPZ	2137	23.2	
9	−EPZ	2200	9.8	
9	+EPZ	2200	29.4	
9	+EPKPdfZ	2256	43.7	#- 1531
9	+IPKiKPZ	2256	44.6	#- 1531
9	+EsPKPdfZ	2257	12.6	#- 1531
9	+EPZ	2310	36.4	#- 1532
9	+EpPZ	2356	3.4	#- 1533
10	+EPZ	0128	27.8	
10	+EPZ	0128	29.6	
10	−IPZ	0128	30.4	
10	−EPZ	0212	36.4	#- 1534
10	+EpPZ	0212	50.0	#- 1534
10	−EsPZ	0212	56.2	#- 1534
10	−EPZ	0241	6.0	
10	+EPZ	0417	26.0	
10	+EPZ	0632	19.0	
10	+EPZ	0825	43.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
10	+EPZ	0834	14.4	
10	+EPZ	0912	28.0	#-1535
10	+EXZ	0912	29.2	#-1535
10	−EPZ	1212	31.4	
10	−EPZ	1214	16.6	
10	+EPZ	1340	35.2	
10	+EPZ	1340	38.6	
10	−EPZ	1404	5.0	
10	+EXZ	1435	27.8	#-1536
10	+EPZ	1452	26.4	
10	+EPZ	1607	16.3	
10	+EPZ	1820	36.2	
10	+EPZ	1921	41.7	
10	+EPZ	2047	45.0	
10	+IPZ	2123	28.3	#-1537
10	+EPZ	2206	6.0	
10	+EPZ	2206	10.4	
10	−EPZ	2221	55.2	
11	+EPZ	0113	47.3	
11	+EPZ	0113	52.0	
11	+EPZ	0224	53.0	
11	+EPZ	0307	24.0	
11	−EPcPZ	0309	39.0	#-1538
11	−EPZ	0419	21.4	
11	+EPZ	0419	28.6	
11	+EPZ	0508	23.0	
11	−EPZ	0512	24.4	
11	+EPZ	0528	17.0	#-1539
11	+EPcPZ	0528	20.0	#-1539
11	−EpPZ	0528	29.0	#-1539
11	+EPZ	0534	43.4	
11	+EPZ	0534	47.0	
11	−EPZ	0748	29.4	
11	−EPZ	0748	40.8	
11	+EPZ	0824	30.8	
11	−EPZ	1003	2.5	
11	+EPZ	1201	9.4	
11	−EPZ	1251	9.0	
11	−EPZ	1307	25.6	
11	−EPZ	1405	31.4	#-1540
11	+EPcPZ	1405	35.0	#-1540
11	+IPZ	1413	8.0	#-1541
11	+IPcPZ	1413	9.6	#-1541
11	+EpPZ	1413	15.0	#-1541
11	−EPZ	1705	3.0	
11	+EPZ	1705	5.9	
11	+EPZ	1935	40.0	#-1542
11	+EPZ	2045	20.0	
11	+EPZ	2137	23.0	
11	+EPZ	2137	30.4	
12	+EPZ	0215	48.4	
12	+EPZ	0445	3.8	
12	+EPZ	0612	33.2	
12	+EPKPdfZ	0723	30.4	#-1543
12	−IPKPbcZ	0723	37.0	#-1543
12	+EPZ	0954	38.6	#-1544
12	+EPcPZ	0954	41.4	#-1544
12	−EPZ	1007	40.0	#-1545
12	+EpPZ	1007	51.0	#-1545
12	−EXZ	1007	40.0	#-1546
12	+EPZ	1015	24.0	
12	−EPZ	1046	32.0	
12	+EPZ	1046	39.0	
12	+EPZ	1057	21.0	
12	+EPZ	1344	21.0	#-1547
12	+EPZ	1344	28.0	#-1547
12	−EPZ	1611	24.0	#-1548
12	+EPZ	1820	33.6	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
12	+EPZ	19	07	1.8	
12	+EPZ	20	13	22.8	#-1549
12	+EXZ	20	13	28.5	#-1549
12	+EPZ	23	37	24.0	
13	−EPZ	02	03	20.0	#-1550
13	−EPZ	02	47	54.0	#-1551
13	−EpPZ	02	48	14.9	#-1551
13	+EXZ	04	17	26.4	#-1552
13	+EXZ	04	17	32.0	#-1552
13	−EPZ	07	36	33.0	#-1553
13	+EPcPZ	07	36	45.0	#-1553
13	+EpPZ	08	04	45.2	#-1554
13	+EsPZ	08	04	48.6	#-1554
13	−EPZ	09	20	27.2	
13	+EPZ	11	09	18.0	
13	−EPZ	13	15	34.0	
13	−EPZ	13	39	0.0	
13	−EPZ	17	35	43.0	
13	+EPZ	17	35	45.0	
13	+EPZ	20	25	27.4	#-1555
13	−EPcPZ	20	25	29.2	#-1555
13	+EPZ	22	51	28.4	
13	−IpPZ	23	52	39.0	#-1556
13	+IsPZ	23	52	42.0	#-1556
14	+EPZ	02	44	21.0	
14	+EPZ	02	44	21.9	
14	−EPZ	02	44	39.0	
14	+EPZ	09	14	25.4	
14	+EPZ	09	51	14.8	#-1557
14	+EsPZ	09	51	23.6	#-1557
14	−EPZ	12	06	11.0	
14	−EXZ	15	16	4.0	#-1558
14	+EPZ	16	11	20.2	
14	+EPZ	16	11	26.8	
14	+EpPZ	20	58	34.0	#-1559
14	+EPcPZ	23	37	34.4	#-1560
15	−EPZ	00	26	10.3	#-1561
15	+EPdiffZ	02	16	39.0	#-1562
15	+EXZ	03	55	3.4	#-1563
15	+EpPKPbcZ	03	55	24.8	#-1563
15	−EPKPabZ	03	55	31.0	#-1563
15	−IPZ	06	29	53.8	#-1564
15	−IpPZ	06	29	58.0	#-1564
15	ESH	06	38	30.6	#-1564
15	−EXZ	08	21	34.2	#-1565
15	−EPZ	13	36	12.2	
15	+EPZ	14	41	12.0	
15	+EPZ	14	48	27.0	#-1566
15	+EpPZ	14	48	30.0	#-1566
15	+EPZ	15	55	29.4	#-1567
15	+EPZ	17	39	45.9	
15	+EPZ	20	09	27.4	
16	−EPZ	01	07	19.4	
16	+EPcPZ	01	40	32.0	#-1568
16	−EPZ	03	20	4.2	
16	+EPZ	03	20	8.6	
16	+EPZ	03	41	20.9	#-1569
16	−IpPZ	03	41	22.8	#-1569
16	+IPZ	03	47	54.1	#-1570
16	+IpPZ	03	47	57.8	#-1570
16	+EPZ	03	49	54.6	#-1571
16	−EXZ	04	41	27.0	#-1572
16	+EPZ	04	52	23.4	#-1573
16	−EsPZ	04	52	28.6	#-1573
16	−EpPZ	05	45	39.0	#-1574
16	−EsPZ	05	45	42.0	#-1574
16	+EPdiffZ	06	10	36.0	#-1575
16	−EPZ	06	07	18.0	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
16	−EPZ	0655		7.6	
16	−EPZ	0824		45.6	
16	−EXZ	0825		7.0	#-1576
16	+IpPZ	0841		55.0	#-1577
16	+EpPZ	0942		35.0	#-1578
16	−EsPZ	0942		37.4	#-1578
16	−EPnPnZ	0942		45.8	#-1578
16	+EPnPnZ	0959		23.0	#-1579
16	+EPnPnZ	0959		25.0	#-1579
16	+EPZ	1038		56.0	#-1580
16	+EsPZ	1039		3.2	#-1580
16	−EPcPZ	1039		5.0	#-1580
16	+EPZ	1049		45.0	
16	+EPZ	1058		35.6	
16	+IPKPdfZ	1203		35.4	#-1581
16	+IpPZ	1507		3.2	#-1582
16	+IPnPnZ	1508		13.2	#-1582
16	−EpPZ	1511		12.0	#-1583
16	−EPZ	1557		27.3	
16	+EPZ	1627		20.6	
16	−EPZ	1627		21.9	
16	+EPZ	1807		20.0	
16	+EPZ	2251		20.0	
17	−EPZ	0005		5.0	
17	+EPZ	0331		24.6	
17	+EPZ	0331		28.2	
17	+EPZ	0424		22.0	
17	−EPZ	0424		27.0	
17	+EPZ	0826		25.0	
17	−EPZ	0826		27.4	
17	+IPZ	0911		44.4	#-1584
17	−IsPZ	0911		47.4	#-1584
17	+EsPZ	1016		35.2	#-1585
17	+EXZ	1021		44.8	#-1586
17	−EXZ	1025		32.0	#-1587
17	+EsPZ	1033		28.0	#-1588
17	−EPPZ	1047		46.3	#-1589
17	+IpPZ	1050		52.0	#-1590
17	+IsPZ	1050		53.0	#-1590
17	+EsPZ	1055		36.0	#-1591
17	−EPnPnZ	1056		46.8	#-1591
17	+EPnPnZ	1103		13.4	#-1592
17	+EXZ	1103		22.8	#-1592
17	−EPZ	1105		46.6	#-1593
17	+EpPZ	1118		53.4	#-1594
17	+EPPZ	1121		8.4	#-1595
17	−EPZ	1121		40.0	#-1596
17	+EPZ	1122		23.0	
17	+EXZ	1128		24.6	#-1597
17	+EpPZ	1141		2.6	#-1598
17	+EsPZ	1142		20.0	#-1599
17	+EPZ	1145		42.0	#-1600
17	+EsPZ	1145		48.0	#-1600
17	+EPZ	1148		29.6	#-1601
17	−EPZ	1203		14.8	
17	+EPZ	1218		18.4	#-1602
17	−IpPZ	1219		19.7	#-1602
17	−EPZ	1240		13.2	#-1603
17	+EPZ	1244		31.0	
17	+IpPZ	1252		12.2	#-1604
17	−EPcPZ	1254		45.6	#-1604
17	−EPZ	1303		22.0	
17	+EPZ	1317		55.0	#-1605
17	−EpPZ	1318		0.2	#-1605
17	+EsPZ	1318		3.2	#-1605
17	+EXZ	1349		27.6	#-1606
17	+EPZ	1349		23.8	#-1607
17	+EPZ	1410		19.9	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
17	+EPZ	1424		21.6	
17	−EPZ	1424		41.8	
17	+EPZ	1431		34.0	#-1608
17	−EsPZ	1431		40.0	
17	+EpPZ	1452		44.8	#-1609
17	+EPcPZ	1504		26.0	#-1610
17	+EpPZ	1505		53.6	#-1611
17	+EPZ	1511		47.4	#-1612
17	+EPZ	1516		44.2	
17	+EPnPnZ	1532		28.8	#-1613
17	+EpPZ	1532		4.0	#-1614
17	+EXZ	1543		48.0	#-1615
17	+EPZ	1607		27.6	
17	+EPZ	1607		31.0	
17	+EPZ	1608		49.0	#-1616
17	+EPZ	1615		12.4	
17	+EPZ	1638		50.0	
17	−EPZ	1652		25.4	
17	+EPZ	1715		26.0	
17	+EPZ	1725		20.0	#-1617
17	−EPZ	1748		6.0	#-1618
17	−IpPZ	1748		11.2	#-1618
17	−EXZ	1748		31.6	#-1618
17	+EPZ	1825		39.4	
17	+EPZ	1825		48.6	
17	+EPZ	1859		7.4	
17	−EPZ	1908		10.0	
17	+EPZ	1938		34.2	
17	+EPZ	1938		39.6	
17	+EPZ	1938		54.0	
17	+EPZ	2058		10.0	
17	−EPZ	2149		32.0	
17	+EPZ	2150		9.4	
17	+EPZ	2150		11.4	
17	−EpPZ	2152		23.0	#-1619
17	+EPZ	2319		40.0	
18	+EPZ	0051		2.6	
18	+EPZ	0051		5.8	
18	+EPZ	0115		50.0	
18	−EPZ	0217		45.6	#-1620
18	+EpPZ	0217		50.0	#-1620
18	+EPZ	0358		54.0	#-1621
18	−EPZ	0359		7.0	
18	−EpPZ	0435		23.6	#-1622
18	+EPZ	0448		8.6	
18	+EPZ	0513		23.0	
18	−EPZ	0513		35.8	
18	+EpPZ	0530		14.4	#-1623
18	+EsPZ	0530		17.6	#-1623
18	+EPZ	0548		21.8	#-1624
18	+EsPZ	0548		27.2	#-1624
18	+EPZ	0619		24.4	
18	−EPZ	0646		35.4	
18	−EPZ	0714		9.4	#-1625
18	+EPnPnZ	0715		18.0	#-1625
18	−EPZ	0721		3.9	
18	−EPZ	0746		4.2	#-1626
18	+EPcPZ	0746		10.0	#-1626
18	+EPZ	0818		47.0	
18	−EPZ	0838		41.0	
18	+EPZ	0849		34.4	
18	−EPZ	0943		33.8	
18	−EsPZ	1250		5.8	#-1627
18	+EPZ	1356		39.0	#-1628
18	+EPZ	1512		30.0	
18	+EPZ	1512		35.0	
18	+EPZ	1552		35.0	
18	+EpPZ	1559		49.6	#-1629

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
18	+EPZ	1611	21.0	
18	+EPZ	1924	15.4	
18	+EPZ	1924	19.4	
18	+IPKPdfZ	1929	3.4	#-1630
18	+IPKiKPZ	1929	5.6	#-1630
18	+EPZ	2121	17.6	
18	+EPZ	2121	30.6	
18	+EPZ	2143	7.9	#-1631
18	+EPcPZ	2143	15.4	#-1631
18	+EPZ	2220	16.3	
18	+EPZ	2234	42.6	#-1632
18	−IXZ	2234	47.6	#-1632
18	+EPZ	2306	30.3	
19	−EPZ	0039	18.8	
19	+EPZ	0039	21.2	
19	−EPZ	0312	3.0	
19	+EPZ	0312	5.4	
19	+EPZ	0312	15.8	
19	+EPZ	0645	7.6	#-1633
19	+EPZ	0727	9.4	
19	+EPZ	0916	9.9	
19	+EPZ	0916	15.0	
19	+EXZ	0927	24.6	#-1634
19	+EPZ	1121	15.0	
19	+EPZ	1324	24.6	
19	+EPZ	1328	14.0	
19	−IPZ	1345	54.6	#-1635
19	+IPcPZ	1345	58.4	#-1635
19	+EPPZ	1534	50.4	#-1636
19	+EpPZ	1556	13.4	#-1637
19	+EPZ	1605	24.0	
19	+EsPZ	1610	5.4	#-1638
19	+EPZ	1616	16.8	#-1639
19	+EPdiffZ	1714	30.4	#-1640
19	+EXZ	1716	19.6	#-1640
19	+EPZ	1917	34.6	
19	+EPZ	2035	15.2	
19	+EPZ	2118	32.6	
19	+EPZ	2118	41.8	
19	−IPZ	2221	31.4	#-1641
19	+IpPZ	2221	33.2	#-1641
19	+EsPZ	2221	34.6	#-1641
19	+IPZ	2310	34.6	#-1642
19	+IsPZ	2310	38.6	#-1642
19	−EPZ	2326	28.2	#-1643
19	+IpPZ	2326	31.0	#-1643
19	+IsPZ	2326	33.2	#-1643
20	+EPZ	0011	32.0	
20	+EPZ	0115	32.0	
20	+EPZ	0115	37.6	
20	+EPZ	0205	28.4	
20	+EPZ	0217	16.6	
20	+EPZ	0217	19.8	
20	+EPZ	0306	22.2	
20	+IpPZ	0354	4.7	#-1644
20	+EPZ	0406	27.0	#-1645
20	+IpPZ	0406	29.6	#-1645
20	+IPZ	0421	41.4	#-1646
20	+EXZ	0421	50.2	#-1646
20	−IXZ	0539	5.6	#-1647
20	+EpZP	0551	42.2	#-1648
20	+EPZ	0723	19.6	
20	+EPZ	0723	23.8	
20	+IPZ	1022	18.0	#-1649
20	+EpPZ	1022	23.8	#-1649
20	+EsPZ	1022	25.6	#-1649
20	+EPZ	1049	20.0	
20	+EpPZ	1308	19.0	#-1650

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
20	+EPZ	1308		28.6	
20	−EpPZ	1408		24.0	#- 1651
20	+EsPZ	1408		27.0	#- 1651
20	+EPZ	1601		4.8	#- 1652
20	−EpPZ	1601		15.0	#- 1652
20	−EsPZ	1720		35.2	#- 1653
20	+EPZ	1726		7.0	
20	−EPcPZ	1857		9.8	#- 1654
20	+EPZ	1926		26.8	
20	+EPZ	2056		10.0	
20	+EPZ	2058		16.0	
20	+EPZ	2324		17.8	
20	+EPZ	2325		5.4	
21	+EPZ	0024		34.0	#- 1655
21	+EPcPZ	0024		48.2	#- 1655
21	+EPZ	0334		33.8	
21	+EPZ	1025		10.6	
21	−EPZ	1210		10.0	
21	+EPZ	1307		23.9	
21	+EPZ	1637		27.0	
21	+EPZ	1746		16.4	
21	+EPZ	1823		27.0	
21	+EPZ	2141		56.4	
21	−IPZ	2142		3.2	
22	+EPZ	0505		8.2	#- 1656
22	+EPcPZ	0505		13.7	#- 1656
22	−IPZ	0549		53.8	#- 1657
22	+IPcPZ	0549		56.4	#- 1657
22	−IpPZ	0550		19.2	#- 1657
22	ESH	0600		26.5	
22	+EPPZ	0709		43.0	#- 1658
22	+EPKiKPZ	0709		46.0	#- 1658
22	−EXZ	0705		20.6	#- 1659
22	+EPZ	0919		10.0	
22	+EPZ	1302		23.4	
22	+EPZ	1302		33.0	
22	−EPZ	1302		35.0	
22	+EPZ	1512		5.2	#- 1660
22	−EpPZ	1512		10.0	#- 1660
22	−EPZ	1540		43.0	#- 1661
22	+EPcPZ	1540		47.3	#- 1661
22	−EPZ	1653		20.6	
22	−EPZ	1720		12.2	
22	+IPZ	1733		21.2	#- 1662
22	+EPcPZ	1733		26.0	#- 1662
22	+EsPZ	1733		29.8	#- 1662
22	+EPZ	1814		23.0	
22	+EpPdiffZ	1845		5.2	#- 1663
22	+EPZ	1935		8.4	#- 1664
22	+EPcPZ	1935		9.8	#- 1664
22	−EPZ	2025		17.7	
22	−EXZ	2223		30.0	#- 1665
22	+EPZ	2311		2.3	
23	+EPZ	0005		29.0	
23	+EPZ	0005		35.0	
23	−EPZ	0112		18.0	
23	+EPZ	0213		6.0	
23	−EPZ	0213		9.0	
23	+EPZ	0315		27.4	#- 1666
23	−EpPZ	0315		29.8	#- 1666
23	+EsPZ	0315		34.4	#- 1666
23	+EPZ	0404		27.0	
23	+IPZ	0404		54.4	
23	−EPZ	0442		32.6	
23	−EPZ	0442		35.4	
23	+EPZ	0453		47.2	
23	+EPZ	0453		50.5	
23	+EPZ	0606		23.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
23	+EPZ	0606	32.0	
23	−EPZ	0739	28.0	
23	−IPZ	0800	49.4	#- 1667
23	ESH	0811	4.6	#- 1667
23	+EPZ	0823	10.0	#- 1668
23	+EpPZ	0826	19.0	#- 1668
23	−EPZ	0847	26.0	
23	+EpPZ	0918	39.0	#- 1669
23	+EPZ	0948	11.0	#- 1670
23	−EsPZ	0948	15.0	#- 1670
23	+EPcPZ	0948	28.9	#- 1670
23	+EPZ	1405	31.6	
23	+EPZ	1405	34.9	
23	−EPZ	1412	41.0	
23	−EPcPZ	2118	10.0	#- 1671
23	+EpPZ	2118	17.0	#- 1671
23	+EPZ	2205	18.4	#- 1672
23	+PdiffZ	2340	20.6	#- 1673
23	+EPZ	2349	35.0	
23	+EPPZ	2349	43.6	
24	−EPZ	0358	34.0	
24	+EPZ	0358	41.2	
24	+IPZ	0359	5.8	
24	+EPZ	0537	37.8	
24	+EPZ	0813	14.4	
24	+EPZ	0859	13.6	#- 1674
24	+IPcPZ	0859	18.6	#- 1674
24	ESH	0908	42.4	#- 1674
24	+EPZ	0957	28.4	
24	+EXZ	1037	16.0	#- 1675
24	−IPZ	1121	32.0	#- 1676
24	−IPcPZ	121	34.2	#- 1676
24	−EpPZ	1123	40.0	#- 1676
24	ESH	1131	9.0	#- 1676
24	−EPZ	1315	18.0	
24	+EPZ	1315	20.0	
24	+EPZ	1427	53.0	#- 1677
24	−EXZ	1626	4.6	#- 1678
24	+EPKPabZ	1626	18.0	#- 1678
24	+EPZ	1818	24.6	
24	+EPZ	1818	34.6	
24	+EPKiKPZ	1821	31.7	#- 1679
24	−EPZ	1906	25.4	
24	−IPZ	2009	44.0	#- 1680
24	−EpPZ	2010	23.8	#- 1680
24	+EsPZ	2010	42.6	#- 1680
24	+EPKiKPZ	2108	11.0	#- 1681
24	−EPZ	2212	44.0	#- 1682
24	+EsPZ	2212	50.8	#- 1682
24	+EXZ	2215	40.2	#- 1683
24	+IPZ	2301	43.6	#- 1684
24	+EPcPZ	2301	56.2	#- 1684
25	+EXZ	0052	25.2	#- 1685
25	+EXZ	0052	32.4	#- 1685
25	+EPZ	0103	35.6	
25	+EPZ	0103	48.5	
25	+EPZ	0147	49.5	
25	+EPZ	0213	10.0	
25	−EPZ	0213	16.0	
25	+EPZ	0213	17.5	
25	−EPZ	0305	33.9	#- 1686
25	+EpPz	0305	36.7	#- 1686
25	+EXZ	0343	9.6	#- 1687
25	−EXZ	0343	27.0	#- 1687
25	−EPZ	0420	21.6	
25	+EPZ	0504	30.0	
25	−EpPZ	0518	2.0	#- 1688
25	+IsPZ	0518	3.2	#- 1688

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
25	+IXZ	0616		10.2	#-1689
25	−IXZ	0616		12.7	#-1689
25	+EPZ	0635		2.0	#-1690
25	+IpPZ	0635		5.4	#-1690
25	+IPZ	0648		23.0	
25	+IPZ	0650		4.4	
25	+EPZ	0729		9.2	#-1691
25	+IpPZ	0729		13.2	#-1691
25	+EsPZ	0729		15.2	#-1691
25	ESH	0735		28.4	#-1691
25	+EpPZ	0804		3.0	#-1692
25	−EpPZ	1045		50.0	#-1693
25	+EPZ	1242		12.0	
25	+EPZ	1628		23.2	
25	+EPZ	1708		34.4	
25	−EPZ	1956		22.0	#-1694
25	+EPcPZ	1956		23.4	#-1694
25	+EPZ	2019		31.0	#-1695
25	+EPcPZ	2019		32.4	#-1695
25	+EPZ	2029		4.5	
25	−EPZ	2049		7.4	
25	+EPZ	2051		7.2	
25	+EPZ	2107		15.6	#-1696
25	+EpPZ	2107		18.5	#-1696
25	−EsPZ	2135		14.2	#-1697
25	−EPcPZ	2217		30.0	#-1698
25	+EPZ	2349		49.4	#-1699
25	−EXZ	2350		3.0	#-1699
26	−IPZ	0035		49.6	#-1700
26	−EPcPZ	0035		55.0	#-1700
26	−EPZ	0101		24.0	
26	−EPZ	0140		4.0	
26	−EPZ	0249		53.4	#-1701
26	−EPZ	0529		2.8	
26	+EPZ	0529		4.4	
26	+EPZ	0719		17.0	
26	+EsPKPdfZ	0831		34.0	#-1702
26	+EPKPabZ	0831		43.0	#-1702
26	+EPZ	0844		36.0	
26	+EPZ	1113		7.0	
26	+EPZ	1113		15.0	
26	+EPZ	1302		31.0	
26	+EPZ	1443		25.6	#-1703
26	+IXZ	1443		45.0	#-1703
26	+EsPZ	1443		54.8	#-1703
26	−EPZ	1635		19.0	
26	+EXZ	1706		23.8	#-1704
26	+EPZ	2033		16.0	
26	+EPZ	2319		26.0	
27	+EPZ	0148		46.4	
27	−EPZ	0252		29.9	#-1705
27	+IpPZ	0252		49.4	#-1705
27	−EPZ	0348		18.0	
27	−EpPZ	0428		28.9	#-1706
27	+EPZ	0520		33.0	
27	+EPZ	0604		19.0	
27	+IPZ	0712		53.0	
27	−IPZ	0712		54.7	
27	−EPZ	0723		22.0	
27	−EPZ	0723		24.0	
27	+EPZ	0915		14.5	
27	+EPZ	1027		8.6	
27	+EPZ	1423		7.0	
27	−EPZ	1429		15.2	#-1707
27	−EsPZ	1429		25.0	#-1707
27	+EPZ	1434		6.0	
27	+EPZ	1435		27.0	
27	−EPZ	1744		26.2	

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
27	+EPZ	1803		1.3	
27	+EPZ	1804		34.8	
27	−EPZ	1855		13.0	
27	+EPZ	1856		16.6	
27	+EPZ	1908		16.0	
27	+EXZ	2042		43.0	#- 1708
27	−EPcPZ	2042		53.2	#- 1708
27	+EPZ	2043		12.2	#- 1709
27	−EPZ	2356		36.0	
28	+IPZ	0015		34.4	
28	−EPZ	0241		16.0	
28	−EPZ	0241		19.2	
28	+EPZ	0300		21.2	
28	−EPZ	0413		8.5	
28	+EPZ	0413		11.2	
28	+EPZ	0554		9.6	
28	−EPZ	0554		12.2	
28	+EPZ	0554		22.9	
28	−EPZ	0706		5.0	#- 1710
28	+EpPZ	0706		14.0	#- 1710
28	+EPZ	1314		10.6	
28	+IPdiffZ	1405		13.0	#- 1711
28	−IpPdiffZ	1405		15.0	#- 1711
28	ESH	1415		49.0	#- 1711
28	−EPZ	1552		37.0	#- 1712
28	+EpPZ	1552		41.8	#- 1712
28	+EPcPZ	1615		6.7	#- 1713
28	+IPZ	1651		47.4	#- 1714
28	−IPcPZ	1651		49.2	#- 1714
28	+EPZ	2013		14.7	
28	+EPZ	2013		19.2	
28	+EPZ	2140		3.0	
29	+IPZ	0335		36.0	
29	+EPZ	0532		16.0	#- 1715
29	+IpPZ	0532		18.0	#- 1715
29	−EsPZ	0532		20.8	#- 1715
29	+EPZ	0706		25.2	
29	+EPZ	0706		28.5	
29	+EPZ	1049		4.4	#- 1716
29	−EpPZ	1049		8.0	#- 1716
29	+EPZ	1054		7.4	
29	+EPZ	1153		31.0	
29	−EPZ	1205		14.0	#- 1717
29	+EsPZ	1205		20.2	#- 1717
29	−EPZ	1217		32.2	#- 1718
29	−EpPZ	1217		35.8	#- 1718
29	−EPZ	1415		18.6	#- 1719
29	+EXZ	1415		20.9	#- 1719
29	+EPZ	1318		26.0	
29	+EPZ	1318		29.4	
29	−EpPZ	1417		42.6	#- 1720
29	+EPZ	1443		8.0	
29	−EXZ	1515		37.0	#- 1721
29	−EPnPnZ	1815		51.4	#- 1722
29	+IPPZ	1815		54.6	#- 1722
29	+EPZ	1912		3.5	#- 1723
29	+EPcPZ	1912		11.8	#- 1723
29	−EpPZ	1912		37.4	#- 1723
29	+EPZ	2026		53.0	
29	−EPZ	2307		18.2	
30	+EPZ	0204		1.5	
30	−IPZ	0204		4.6	
30	−EPZ	0310		7.6	
30	+IPZ	0344		54.6	#- 1724
30	−EpPZ	0345		4.0	#- 1724
30	+EPZ	0817		7.0	
30	+IPZ	1206		23.0	#- 1725
30	−EPcPZ	1206		29.2	#- 1725

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
30	+EsPZ	12	06	33.4	#-1725
30	−EPZ	16	28	18.0	
30	+EPZ	19	31	18.4	#-1726
30	−EpPZ	19	31	19.8	#-1726
30	−EPZ	20	43	3.5	
Dec.1	+EPZ	00	43	38.8	
1	+EPZ	00	43	53.4	
1	−EPZ	01	20	2.0	#-1727
1	+EpPZ	01	20	9.6	#-1727
1	−IPZ	01	36	37.0	#-1728
1	−IXZ	01	36	40.2	#-1728
1	ESH	01	46	55.6	#-1728
1	+EpPZ	01	47	5.4	#-1729
1	+EXZ	02	03	15.0	#-1730
1	−EPZ	03	00	13.8	#-1731
1	−EPKPdfZ	03	39	23.4	#-1732
1	+IpPKPdfZ	03	39	29.0	#-1732
1	−IpPKPbcZ	03	39	35.2	#-1732
1	+EPZ	05	21	7.0	
1	−EPZ	05	21	16.2	
1	+EPPZ	05	25	15.2	#-1733
1	−EPZ	05	35	9.0	
1	+EPZ	05	35	16.6	
1	−EPZ	06	26	51.2	#-1734
1	−EPZ	06	42	7.6	#-1735
1	+EPcPZ	06	42	16.6	#-1735
1	+EPZ	07	28	9.0	#-1736
1	+IPcPZ	07	28	28.2	#-1736
1	+EpPZ	07	28	42.3	#-1736
1	+EPZ	08	25	3.0	#-1737
1	+EXZ	08	25	5.0	#-1737
1	+EPZ	08	50	35.9	
1	+EPZ	08	52	44.2	
1	+IPZ	10	13	29.6	#-1738
1	−IPcPZ	10	13	32.4	#-1738
1	−EXZ	10	20	42.0	#-1739
1	−EPZ	10	21	29.0	
1	+EPZ	11	01	25.6	
1	+EPZ	11	01	33.0	
1	+EPZ	11	38	54.6	
1	+EPZ	12	07	36.3	
1	+EPZ	12	07	46.1	
1	+EPZ	13	13	1.0	
1	+EPZ	13	33	14.0	
1	−EPZ	13	33	24.6	
1	+EPZ	14	36	26.6	
1	+EPZ	16	17	7.4	
1	+EPZ	16	43	17.0	
1	−EPZ	16	43	20.2	
1	−EPZ	20	25	55.0	#-1740
1	−IXZ	20	26	2.4	#-1740
1	−EPZ	23	17	27.8	
1	+EPZ	23	33	5.0	
1	+IPZ	23	33	11.2	
2	−EPZ	01	11	44.7	#-1741
2	−EPcPZ	01	11	47.2	#-1741
2	+IPZ	02	27	9.0	#-1742
2	+IPcPZ	02	27	13.6	#-1742
2	+EPKiKPZ	02	32	28.0	#-1742
2	−EPZ	04	12	25.0	
2	+EPZ	04	12	29.0	
2	+EPZ	04	48	17.9	
2	+EPZ	05	05	0.8	
2	+EPZ	07	47	10.0	#-1743
2	+EsPZ	07	47	18.0	#-1743
2	+EPZ	08	16	26.0	
2	−EXZ	12	22	41.0	#-1744
2	+EPZ	12	37	44.6	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
2	+EPZ	1258	6.2	
2	+EPZ	1320	26.8	
2	−EPPZ	1340	9.0	#- 1745
2	−EPZ	1340	43.0	
2	−EPZ	1354	43.0	
2	+EPZ	1412	9.2	
2	+EPZ	1457	32.0	
2	−EPZ	1457	43.0	
2	−EXZ	1504	35.0	#- 1746
2	+EPZ	1537	24.0	
2	+EPZ	1546	15.2	
2	+EPZ	1546	20.6	
2	+EPZ	1605	43.0	
2	−EPZ	1648	14.6	
2	+EPZ	1648	17.6	
2	+EPZ	1737	11.2	
2	+EPZ	1906	23.6	
2	−EPZ	1926	17.6	#- 1747
2	+EPZ	2050	10.0	
2	+EPZ	2200	23.4	
2	−EPZ	2200	33.0	
2	+EPZ	2221	22.8	
2	+EPZ	2247	29.0	
2	−EPZ	2301	35.0	
2	+EPZ	2301	41.5	
3	+EXZ	0752	25.2	#- 1748
3	+EPZ	0838	13.0	
3	+EPZ	0914	28.8	
3	+EPZ	0914	34.0	
3	+EXZ	0935	45.0	#- 1749
3	−IPKiKPZ	0935	47.2	#- 1749
3	+EPZ	1111	24.4	
3	+EPZ	1214	4.0	
3	+EPZ	1420	2.4	
3	+EPZ	1534	32.0	
3	+EPZ	1547	12.0	
3	+EPZ	1549	42.6	#- 1750
3	+EsPZ	1550	4.2	#- 1750
3	+EPZ	1644	0.6	
3	−EPZ	1721	19.6	
3	+EPZ	1909	30.0	
3	+EPZ	1909	34.4	
3	+EPZ	2116	34.0	#- 1751
3	−EPZ	2312	27.6	
4	−IXZ	0012	6.8	#- 1752
4	−IPcPZ	0012	9.2	#- 1752
4	−IsPZ	0012	21.6	#- 1752
4	+EXZ	0101	9.0	#- 1753
4	+EPZ	0116	30.0	#- 1754
4	+EPZ	0221	27.6	
4	−EPZ	0341	12.0	
4	−EXZ	0412	36.4	#- 1755
4	+IPZ	0550	55.6	#- 1756
4	−IPcPZ	0551	10.0	#- 1756
4	+EPZ	0622	44.0	
4	+EPZ	0639	6.8	
4	−EPZ	0732	33.0	
4	−EPZ	1413	25.2	
4	+EPZ	1421	52.4	
4	−EPZ	1422	7.0	#- 1757
4	+EPcPZ	1422	13.4	#- 1757
4	−IPZ	1506	54.0	#- 1758
4	ESH	1516	16.0	#- 1758
4	−EPZ	16002	47.0	
4	+EPZ	1704	11.3	
4	−IPZ	1755	57.2	#- 1759
4	−EpPZ	1911	25.4	#- 1760
4	+IPZ	1912	6.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
4	+EPZ	2318	25.0	
5	−EPZ	0749	17.6	
5	−EPZ	0810	11.6	
5	−EPZ	0911	7.0	
5	+EPZ	1058	7.0	
5	−IPZ	1501	50.8	
5	−IPZ	1501	53.1	
5	+IPZ	1501	55.0	
5	+EPZ	1817	33.4	
6	−IPZ	0041	0.0	
6	+EPZ	0111	34.2	#-1761
6	+EPcPZ	0111	39.4	
6	−EPZ	0318	10.9	#-1762
6	+EPZ	0330	15.4	#-1763
6	−EPZ	0807	27.7	
6	+EPZ	0925	3.0	
6	−EPZ	1000	44.4	#-1764
6	+EXZ	1001	9.0	
6	−EPdiffZ	1038	34.6	#-1765
6	+EPZ	1041	16.5	
6	+EPZ	1313	16.0	
6	−EPZ	1427	29.4	
6	−IPZ	1901	32.0	#-1766
6	+EPZ	2111	44.7	#-1767
6	+EPcPZ	2216	37.0	#-1768
7	+EXZ	0007	11.8	#-1769
7	+EPZ	0119	14.0	#-1770
7	−EPcPZ	0119	16.4	#-1770
7	−IXZ	0756	21.6	#-1771
7	+EsPZ	0832	19.6	#-1772
7	−EPZ	0845	31.2	#-1773
7	−EPcPZ	0845	37.0	#-1773
7	+EPZ	0910	14.7	#-1774
7	−EsPZ	0910	21.0	#-1774
7	+EPZ	0923	55.0	#-1775
7	−EXZ	0934	33.0	#-1776
7	+EPZ	1134	10.9	
7	+EPZ	1134	14.8	
7	+EPKPdfZ	1704	12.0	#-1777
7	−EPZ	2326	20.6	
7	+EPZ	2347	20.6	
8	−EPZ	0206	20.4	#-1778
8	−IPcPZ	0206	23.6	#-1778
8	+EPZ	0613	26.0	#-1779
8	+EPcPZ	0613	30.4	#-1779
8	+EPZ	0722	36.8	#-1780
8	−EPZ	0906	21.6	
8	−EPZ	1138	51.4	#-1781
8	+EPcPZ	1138	54.4	#-1781
8	−EpPZ	1139	16.0	#-1781
8	−EPZ	1154	30.0	#-1782
8	+EXZ	1154	33.0	#-1782
8	−EPZ	1412	15.8	#-1783
8	+EPcPZ	1412	38.0	#-1783
8	−EPZ	1713	52.4	#-1784
8	+IXZ	1741	30.0	#-1785
8	+IXZ	1744	10.0	#-1785
8	+EPZ	1816	33.2	
8	−EPZ	2108	41.6	#-1786
8	−EsPZ	2109	2.0	#-1786
9	+EPZ	0016	18.8	#-1787
9	+EPcPZ	0016	19.8	#-1787
9	+EPZ	0108	39.4	
9	−EPZ	0108	43.4	
9	+IPZ	0503	59.8	
9	+EPZ	0752	18.0	#-1788
9	+EPcPZ	0752	20.8	#-1788
9	+EPZ	0900	28.0	#-1789

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
9	−EPcPZ	0900	30.4	#-1789
9	+IXZ	0900	36.0	#-1789
9	−EPZ	0906	16.4	#-1790
9	+EsPZ	0906	19.8	#-1790
9	+EpPZ	0906	21.6	#-1790
9	+EPZ	1148	41.0	
9	+EPZ	1148	48.0	
9	−EPZ	1446	26.8	
9	−EPZ	1540	26.8	#-1791
9	−EPZ	1928	15.4	
9	+EPZ	1928	21.0	
9	+EXZ	2052	42.9	#-1792
9	+EPZ	2248	16.0	
9	+EPZ	2325	3.0	
10	+EPZ	0009	15.8	#-1793
10	−EPZ	0102	9.4	#-1794
10	−IPcPZ	0102	34.0	#-1794
10	−IpPZ	0102	38.8	#-1794
10	+EpPdiffZ	0142	45.0	#-1795
10	−EPZ	0219	53.0	
10	−IPZ	0219	54.8	
10	+EPZ	0311	28.4	
10	−EPZ	0424	37.2	
10	+EPZ	0438	56.6	#-1796
10	−IpPZ	0438	57.6	#-1796
10	−EPZ	0519	31.8	
10	+EpPZ	0646	0.0	#-1797
10	+EsPZ	0646	5.4	#-1797
10	+EPZ	1210	24.1	
10	−EPZ	2143	11.8	#-1798
10	+EpPZ	2143	19.4	#-1798
10	+EPcPZ	2143	24.0	#-1798
10	+EsPZ	2143	27.4	#-1798
10	+EPZ	2150	44.0	#-1799
10	−EPcPZ	2150	52.4	#-1799
10	+EPZ	2312	16.0	
11	+EXZ	0102	28.0	#-1800
11	−EPZ	0504	2.0	
11	+EPZ	0504	5.0	
11	−EPZ	0724	17.6	#-1801
11	+EPcPZ	0724	20.2	#-1801
11	−EpPZ	0725	24.8	#-1801
11	+EXZ	1326	51.0	#-1802
11	+EPZ	1502	20.8	#-1803
11	−EPZ	1614	20.6	
11	+EPZ	1749	11.8	
11	−EPZ	1821	19.2	
11	+EPZ	1834	24.4	#-1804
11	+EPZ	1847	31.2	
11	+EPZ	1847	33.8	
11	+EPZ	2303	57.0	
11	+IPZ	2335	10.0	#-1805
11	+EpPZ	2355	22.0	#-1805
12	+EPZ	0009	21.4	
12	−EPZ	0009	23.8	
12	+EPZ	0221	21.0	
12	−EPZ	0221	25.4	
12	+EPZ	0509	2.0	
12	+IPZ	0509	5.4	
12	+EPZ	0957	47.4	#-1806
12	−EPcPZ	0958	4.2	#-1806
12	−EPZ	1103	12.0	
12	+EPZ	1103	17.6	
12	+EPZ	1939	10.0	
12	−EPZ	2006	57.2	
12	−EXZ	2308	46.0	#-1807
13	+EPZ	0015	37.8	
13	−IpPZ	0018	3.4	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
13	−IpPZ	0018	3.4	
13	−EPZ	0128	21.2	#- 1808
13	−EPcPZ	0128	33.2	#- 1808
13	+EPZ	0206	27.6	#- 1809
13	+EPcPZ	0206	30.2	#- 1809
13	−EXZ	0441	23.0	#- 1810
13	+EPdiffZ	0459	56.4	#- 1811
13	+EPZ	0512	3.8	
13	+EPZ	0512	8.7	
13	+EPZ	0543	14.2	
13	+EPZ	0553	29.7	
13	+IPZ	0553	57.6	
13	+EPZ	0904	49.0	
13	−EPZ	0904	50.0	
13	+EPZ	0912	18.8	
13	+EPZ	1219	23.8	
13	−EPZ	1219	27.4	
13	−EPZ	1427	52.6	
13	−IPZ	1427	54.6	
13	−EPZ	1511	30.0	
13	+EPcPZ	2048	5.0	#- 1812
14	+EPZ	0144	29.4	
14	−EPZ	0154	43.2	#- 1813
14	+EPKPdfZ	0425	11.6	#- 1814
14	+EXZ	0425	24.6	#- 1814
14	+EPZ	0621	15.6	
14	+EPZ	0621	18.6	
14	−IPZ	0621	27.6	
14	+EPZ	0829	11.9	
14	+EPZ	1328	24.9	
14	+EPZ	1328	29.6	
14	−EPZ	1429	54.5	#- 1815
14	−EPZ	1715	16.0	
14	+EPZ	2245	30.2	
14	−EPZ	2245	31.5	
15	+EPZ	0126	16.1	#- 1816
15	+EPcPZ	0126	19.6	#- 1816
15	+IPKPdfZ	0326	50.0	#- 1817
15	−IPKPbcZ	0326	51.2	#- 1817
15	+IPKiKPZ	0326	54.8	#- 1817
15	+EPZ	0344	3.8	
15	+EPZ	0344	7.8	
15	−EPZ	0642	10.2	
15	+EPcPZ	0812	23.4	#- 1818
15	−EPZ	1016	12.2	
15	+EPcPZ	1308	19.6	#- 1819
15	+EpPZ	1308	36.0	#- 1819
15	+EPZ	1607	9.4	
15	+EPZ	2019	36.8	
15	−IPZ	2019	44.4	
15	−EPZ	2229	41.6	#- 1820
15	−EPcPZ	2229	44.2	#- 1820
15	+EPZ	2311	42.8	
16	−EPZ	0419	44.6	
16	−EPZ	0419	47.6	
16	−EPZ	0419	44.6	#- 1821
16	+EsPZ	0419	49.4	#- 1821
16	+EPZ	0505	21.4	
16	+EPZ	0509	9.6	#- 1822
16	+EpPdiffZ	0519	39.0	#- 1823
16	+EPZ	0547	43.6	
16	+EPZ	0640	14.0	
16	−EPZ	0643	30.4	#- 1824
16	−EPcPZ	0643	33.8	#- 1824
16	−EPZ	0914	42.8	#- 1825
16	+IPZ	0925	39.0	
16	−EPZ	0925	44.6	
16	+EPZ	1106	37.0	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
16	+EPZ	1118	4.7	
16	+EPZ	1118	5.6	
16	+IPZ	1215	1.6	
16	+IPZ	1215	7.6	
16	−EPZ	1217	22.0	#- 1826
16	−EpPZ	1217	24.4	#- 1826
16	−EPZ	1233	25.1	
16	+EPZ	1235	11.6	#- 1827
16	+IsPZ	1235	19.4	#- 1827
16	+EPnPnZ	1236	25.4	#- 1827
16	+EPZ	1357	40.0	
16	+EPZ	1612	8.2	
16	+EPZ	1908	11.6	
16	+EPZ	1908	18.4	
16	+EPZ	1946	0.2	
16	+EPZ	1946	3.6	
16	+EPZ	2039	6.0	#- 1828
16	+EPZ	2052	24.8	
16	+EPZ	2110	22.0	
16	−EPZ	2145	23.1	
16	−EPZ	2210	46.2	#- 1829
16	+IsPZ	2210	51.0	#- 1829
16	−EPnPnZ	2211	55.6	#- 1829
16	+EPZ	2236	19.4	
16	+EPZ	2236	39.8	
17	−EPZ	0318	26.6	
17	−EPZ	0318	30.9	
17	+EPZ	0651	14.0	
17	−EPZ	1148	19.4	
17	+IPZ	1241	21.9	#- 1830
17	+IPcPZ	1241	32.8	#- 1830
17	+IPKPdfZ	1409	13.4	#- 1831
17	+EPKPbcZ	1409	15.2	#- 1831
17	+EpPKPdfZ	1409	18.2	#- 1831
17	+EPZ	1713	37.8	#- 1832
17	−EPcPZ	1713	40.9	#- 1832
17	−ESKSacZ	1723	6.0	#- 1832
17	ESH	1723	22.8	#- 1832
17	+EPZ	1905	36.8	
17	−EPZ	1933	36.0	
17	−EPZ	1933	37.7	
17	+EPZ	1953	24.4	
17	+IPZ	2256	20.9	#- 1833
17	+EpPZ	2256	31.7	#- 1833
17	+EPZ	2334	22.0	#- 1834
17	−EPcPZ	2334	34.8	#- 1834
17	−EPPZ	2337	9.0	#- 1834
17	+EXZ	2356	45.4	#- 1835
18	−EPZ	0007	22.0	
18	−EXZ	0328	35.8	#- 1836
18	−EPZ	0420	19.0	
18	+EPZ	0420	21.6	
18	+EPZ	0420	24.8	
18	−EPZ	0540	56.7	
18	+EPZ	0541	0.4	
18	+EPZ	0802	39.0	#- 1837
18	−EpPZ	0802	50.0	#- 1837
18	+EPZ	0818	10.4	#- 1838
18	+EpPZ	0818	15.6	#- 1838
18	+IPKPdfZ	0842	16.6	#- 1839
18	−IPKPbcZ	0842	18.4	#- 1839
18	−IpPKPabZ	0842	25.2	#- 1839
18	−EPZ	0905	25.4	
18	+EPZ	0905	33.8	
18	+EPZ	0912	15.0	
18	+EPZ	0912	19.6	
18	+EPZ	0912	21.1	
18	−EXZ	1020	37.4	#- 1840

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
18	+EPZ	1225	33.0	
18	+EPZ	1225	39.2	
18	+EPdiffZ	1309	9.4	#-1841
18	+EPZ	1530	50.0	#-1842
18	+EPZ	1654	1.4	#-1843
18	+EpPZ	1654	24.1	#-1843
18	+EPZ	2004	20.1	
18	+EPZ	2333	17.2	
18	+EPZ	2333	29.2	
19	+IPZ	0125	25.9	#-1844
19	+EXZ	0125	47.8	#-1844
19	+EPZ	0452	12.4	#-1845
19	+EPZ	0817	23.2	
19	+IPZ	1315	8.4	
19	+EPZ	1708	46.2	#-1846
19	−EPZ	1711	39.2	
19	−EPPZ	1712	15.6	#-1846
19	+EPcPZ	1911	51.0	#-1847
19	+EsPZ	1912	2.0	#-1847
19	+IPdiffZ	1942	21.4	#-1848
19	+EpPdiffZ	1942	23.4	#-1848
19	+IPZ	2146	37.3	#-1849
19	−IXZ	2146	40.2	#-1849
19	−IsPZ	2146	46.6	#-1849
19	+EXZ	2212	19.2	#-1850
19	+EXZ	2214	52.4	#-1850
19	+EPZ	2244	39.8	
19	−IPZ	2244	49.0	
19	−EPcPZ	2247	34.2	#-1851
19	+EPZ	2314	4.7	
19	+IPZ	2344	31.2	
20	−EPZ	0114	8.6	
20	+EPZ	0114	14.4	
20	+EPZ	0315	3.0	
20	+EPZ	0725	20.9	
20	+EPZ	0844	15.2	
20	+EPZ	0844	24.0	
20	−EPZ	0922	18.4	
20	+EPZ	0922	21.6	
20	+EPZ	1145	14.8	
20	−EPZ	1145	17.2	
20	+EPZ	1211	7.2	#-1852
20	−EpPZ	1211	13.0	#-1852
20	+EPZ	1339	25.4	#-1853
20	+EsPZ	1339	31.4	#-1853
20	+EPZ	1426	2.2	
20	−EPZ	1426	4.4	
20	−EPZ	1439	37.2	
20	+EPZ	1513	21.8	
20	−EXZ	1626	20.0	#-1854
20	−EpPdiffZ	1626	41.0	#-1854
20	+EXZ	1630	34.4	#-1855
20	+EPZ	1859	26.2	#-1856
20	+EPZ	2122	3.4	
20	+EPZ	2123	0.4	#-1857
20	+EXZ	2123	29.2	#-1857
20	−EPZ	2215	47.2	
20	−EpPZ	2345	25.0	#-1858
21	−EPZ	0149	40.0	
21	−EPZ	0250	34.9	
21	+EPZ	0250	37.8	
21	+EXZ	0253	31.7	#-1859
21	+EPZ	0650	35.5	#-1860
21	+EPcPZ	0650	43.0	#-1860
21	−EPZ	0835	0.0	#-1861
21	−EpPZ	0835	2.0	#-1861
21	+EPZ	1405	22.4	
21	+EPZ	1525	47.3	#-1862

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
21	+EPZ	1745	39.2	#-1863
21	+EXZ	1807	45.0	#-1864
21	+EsPdiffZ	1807	55.4	#-1864
21	+EXZ	1809	34.0	#-1865
21	+EPcPZ	1809	37.8	#-1865
21	+EpPZ	1825	18.8	#-1866
21	+EsPZ	1825	23.4	#-1866
21	−EXZ	1953	23.1	#-1867
21	+EpPZ	1953	37.6	#-1867
21	+EPZ	2116	21.6	
22	+EPZ	0014	25.8	
22	+EPZ	0014	33.4	
22	−EPZ	0014	36.3	
22	+EPZ	0204	5.0	#-1868
22	−EPZ	0736	1.8	#-1869
22	+EpPZ	0736	5.6	#-1869
22	+EPZ	0813	38.2	#-1870
22	+EPcPZ	0813	41.4	#-1870
22	+EXZ	1010	4.6	#-1871
22	−EpPZ	1010	10.6	#-1871
22	−EXZ	1305	32.4	#-1872
22	+EPZ	1349	6.4	
22	−EPZ	1508	27.1	
22	−EPZ	1716	1.2	
22	+EPZ	1929	35.0	
22	−EPZ	2026	25.1	
22	+EPZ	2026	35.2	
22	−EPZ	2141	8.0	#-1873
22	−EpPZ	2141	16.6	#-1873
22	+EPZ	2152	2.4	#-1874
22	+EPcPZ	2152	14.6	#-1874
23	−EPZ	0045	7.4	
23	+EPZ	0045	10.2	
23	+EPZ	0616	2.2	
23	+EPKPdfZ	0716	34.4	#-1875
23	−EpPKPdfZ	0716	37.8	#-1875
23	+EXZ	0716	41.4	#-1875
23	−EPcPZ	0728	44.4	#-1876
23	+EPZ	0742	16.4	
23	+EpPdiffZ	0927	24.0	#-1877
23	+EPZ	0928	5.6	
23	+EPKPdfZ	0930	37.4	#-1877
23	+EXZ	0926	48.0	#-1878
23	+EpPKPdfZ	0944	22.4	#-1879
23	−EpPZ	1017	38.0	#-1880
23	−EPcPZ	1017	42.0	#-1880
23	+EPZ	1018	13.7	
23	+EPZ	1057	40.4	
23	+EPZ	1119	15.0	
23	+EPZ	1212	2.6	#-1881
23	−IpPZ	1212	8.0	#-1881
23	+EpPZ	1244	39.0	#-1882
23	+EPZ	1328	16.3	#-1883
23	+EPZ	1548	28.2	
23	−EPZ	1548	34.8	
23	+EPZ	1704	15.0	
23	+EPKPdfZ	1704	38.3	#-1884
23	+EPZ	1810	19.0	
23	−EPZ	1810	28.2	
23	−EPZ	1912	48.4	#-1885
23	−IPnZ	1912	50.0	#-1885
23	−EpPnZ	1912	53.4	#-1885
23	+EPZ	2022	21.4	
23	−EPZ	2022	26.6	
23	+EXZ	2327	44.0	#-1886
24	+EPZ	0307	8.0	
24	+EPZ	0307	24.0	
24	+EPZ	0426	28.8	

Table 1. Continued.

Date	Phase	Time H M	S	Remarks
24	−EPZ	0426	30.2	
24	−EPZ	0740	23.0	#- 1887
24	−EPZ	0937	35.0	
24	+IPZ	0937	46.2	
24	+EPZ	1009	20.8	#- 1888
24	−EPZ	1011	4.2	#- 1889
24	+EXZ	1011	15.6	#- 1889
24	−EPZ	1431	4.2	#- 1890
24	−EpPZ	1431	8.2	#- 1890
24	−EpPZ	1524	43.8	#- 1891
24	+EpPZ	1829	33.2	#- 1892
25	−EPZ	0304	5.8	
25	+EPZ	0304	9.0	
25	+EPZ	0304	12.6	
25	+EPZ	0102	48.8	#- 1893
25	+EPZ	0418	14.0	
25	+EPZ	0518	22.6	
25	+IPZ	0518	26.0	
25	+IPZ	1316	34.0	#- 1894
25	−IPcPZ	1316	36.8	#- 1894
25	−EpPZ	1318	42.2	#- 1894
25	−EPZ	1418	47.3	
25	+EPZ	1614	25.0	
25	+EPZ	1725	37.0	
25	+EPZ	1725	40.1	
25	−EPZ	2025	19.6	
25	+EPZ	2301	18.0	
26	−EPZ	0129	32.2	#- 1895
26	−EPZ	0340	34.9	#- 1896
26	+EXZ	0444	35.1	#- 1897
26	+EPZ	0711	50.0	#- 1898
26	+EsPZ	0711	57.6	#- 1898
26	+EPZ	0907	29.7	
26	+IPZ	1251	41.0	#- 1899
26	−EPZ	1505	29.6	
26	−EPZ	1505	31.4	
26	+EPcPZ	1553	13.6	#- 1900
26	+EPZ	1705	25.3	
26	−EPZ	1705	30.4	
27	−EPZ	0707	29.4	
27	−EPZ	0810	45.3	#- 1901
27	+EPZ	1014	21.5	
27	−EPZ	1517	7.6	
27	+EPZ	1517	9.8	
27	+EpPZ	2027	3.0	#- 1902
27	+EPcPZ	2027	7.8	#- 1902
27	+EPcPZ	2109	43.8	#- 1903
28	−IPZ	0653	4.4	#- 1904
28	−IpPZ	0653	7.0	#- 1904
28	−IsPZ	0653	9.8	#- 1904
28	+EPZ	0745	20.0	
28	+EPZ	0745	24.6	
28	−IPdiffZ	1038	30.0	#- 1905
28	−EPZ	1355	1.2	
28	−EPZ	1514	15.6	
28	+EPZ	1514	25.4	
28	+EPZ	1514	29.0	
28	−EPZ	1521	18.4	#- 1906
28	+IPZ	1532	44.3	#- 1907
28	−EpPZ	1532	48.2	#- 1907
28	+EpPdiffZ	1535	17.4	#- 1908
28	+EPZ	1601	40.4	
28	+EPZ	1601	43.4	
28	+EPcPZ	1836	48.3	#- 1909
28	+EPZ	1910	54.9	#- 1910
28	−EpPZ	1910	58.7	#- 1910
28	+IPZ	1919	2.6	#- 1911
28	−IPcPZ	1919	4.2	#- 1911

Table 1. Continued.

Date	Phase	Time H	M	S	Remarks
28	−EpPZ	1919		29.0	#- 1911
28	+EpPdiffZ	1946		19.0	#- 1912
28	+EPZ	2020		2.8	
28	−EPZ	2020		15.0	
28	+EPZ	2342		13.6	
29	−EsPZ	0101		18.9	#- 1913
29	+EPZ	0804		38.2	
29	+EPZ	0951		32.2	#- 1914
29	+EpPZ	0951		35.5	#- 1914
29	−EPZ	1007		20.8	#- 1915
29	−IPZ	1302		27.4	#- 1916
29	+EPcPZ	1302		29.0	#- 1916
29	+IpPZ	1302		35.0	#- 1916
29	+EPZ	1442		24.9	#- 1917
29	+EPZ	1506		20.2	#- 1918
29	+EpPZ	1506		30.0	#- 1918
29	+EpPZ	1519		26.0	#- 1919
29	−IPZ	1550		32.0	#- 1920
29	−IXZ	1550		42.4	#- 1920
29	−EPdiffZ	1723		20.0	#- 1921
29	+EpPdiffZ	1723		24.3	#- 1921
29	+EsPZ	1751		48.4	#- 1922
29	+EPdiffZ	1803		31.0	#- 1923
29	+EPZ	2009		31.0	
29	−EPZ	2009		34.2	
30	−EPZ	1649		7.4	
31	+EPZ	1427		7.2	
31	+EXZ	1838		24.0	#- 1924
31	+EPcPZ	1838		34.0	#- 1924
31	−EPZ	1913		16.6	
31	+EPdiffZ	2015		13.6	#- 1925
31	−IPZ	2018		12.8	
31	+EXZ	2018		30.0	#- 1926
31	+IPZ	2044		24.0	
31	+EPZ	2044		32.0	
31	+EpPdiffZ	2146		10.0	#- 1927
31	+EPZ	2147		1.6	
31	−EPZ	2147		12.5	

Table 2. List of hypocenters of teleseismic events detected at Syowa Station.
The total number of events is 1,927.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1	1/1	7	35	50.8	46.90	151.02	49	5.7	-	140.67	KURIL ISLANDS
#- 2	1/1	8	38	54.0	1.95	91.18	10	4.0	-	49.18	NORTH INDIAN OCEAN
#- 3	1/1	12	21	26.4	−26.81	−63.35	565	4.5	-	69.35	SANTIAGO DEL ESTERO,ARGENTINA
#- 4	1/1	15	18	34.0	−1.05	126.96	13	4.9	-	88.28	KEPULAUAN SULA, INDONESIA
#- 5	1/2	2	24	23.5	−34.84	−71.60	45	4.7	-	64.54	LIBERTADOR O'HIGGINS, CHILE
#- 6	1/2	14	57	40.2	−10.88	113.86	5	4.5	-	74.44	SOUTH OF JAVA, INDONESIA
#- 7	1/2	15	56	17.9	−0.61	121.86	14	4.6	-	86.87	SULAWESI, INDONESIA
#- 8	1/3	0	2	15.2	−1.61	127.34	16	5.4	-	87.90	KEPULAUAN OBI, INDONESIA
#- 9	1/4	3	0	46.5	−7.40	128.82	150	4.6	-	83.03	KEPULAUAN BARAT DAYA, IND.
#- 10	1/4	10	10	53.0	−29.83	−176.38	53	4.8	-	77.81	KERMADEC ISLANDS REGION
#- 11	1/4	13	13	41.9	−16.44	−173.38	10	5.1	-	91.49	TONGA
#- 12	1/4	20	24	39.5	−5.42	146.11	61	5.0	-	90.96	E NEW GUINEA REG, P.N.G.
#- 13	1/4	23	16	27.3	−20.90	169.55	72	5.1	-	83.37	VANUATU
#- 14	1/5	4	0	44.8	−13.14	66.77	12	5.2	-	58.61	MID-INDIAN RIDGE
#- 15	1/5	4	11	53.2	28.73	128.60	40	5.4	4.5	116.52	RYUKYU ISLANDS, JAPAN
#- 16	1/5	12	8	57.9	−30.34	−72.11	9	4.9	-	68.88	OFFSHORE COQUIMBO, CHILE
#- 17	1/5	12	28	30.8	55.24	−134.53	10	5.1	-	165.92	SOUTHEASTERN ALASKA
#- 18	1/6	10	25	8.8	1.86	89.66	14	4.8	-	78.66	NORTH INDIAN OCEAN
#- 19	1/6	11	8	32.7	1.10	127.48	150	5.4	-	90.48	HALMAHERA, INDONESIA
#- 20	1/6	11	48	0.7	−24.29	−67.05	185	4.3	-	72.92	SALTA, ARGENTINA
#- 21	1/6	16	28	19.2	−26.27	178.39	634	5.1	-	80.25	SOUTH OF THE FIJI ISLANDS
#- 22	1/6	18	17	31.3	−22.88	−66.10	253	4.9	-	73.93	JUJUY, ARGENTINA
#- 23	1/7	6	49	7.0	24.54	122.91	73	5.2	-	110.68	TAIWAN REGION
#- 24	1/8	7	51	31.5	40.21	142.20	39	5.4	-	131.70	NEAR THE EAST COAST OF HONSHU, JAPAN
#- 25	1/8	11	26	49.3	−10.43	120.16	39	4.4	-	77.10	SUMBA REGION, INDONESIA
#- 26	1/8	14	16	8.9	39.65	25.54	13	5.7	5.8	109.12	AEGEAN SEA
#- 27	1/8	19	4	0.5	−32.38	−14.18	10	5.0	-	47.06	SOUTHERN MID-ATLANTIC RIDGE
#- 28	1/8	18	55	40.1	52.41	−170.63	53	5.0	-	158.39	FOX ISL, ALEUTIAN ISL, ALASKA
#- 29	1/8	20	15	5.3	−10.29	161.67	87	5.2	-	91.34	SOLOMON ISLANDS
#- 30	1/8	21	26	59.2	−34.64	179.14	35	5.4	5.4	72.27	SOUTH OF THE KERMADEC ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 31	1/8	23	31	49.8	−1.92	68.07	13	4.6	-	69.87	CARLSBERG RIDGE
#- 32	1/8	23	38	43.1	−2.08	67.98	10	4.7	-	69.69	CARLSBERG RIDGE
#- 33	1/9	6	21	57.1	−1.93	68.03	10	4.9	-	69.85	CARLSBERG RIDGE
#- 34	1/9	10	51	29.6	−1.97	67.95	10	4.9	-	69.80	CARLSBERG RIDGE
#- 35	1/9	11	21	18.7	−24.43	−69.32	93	4.9	-	73.52	ANTOFAGASTA, CHILE
#- 36	1/9	18	38	41.0	−17.88	−69.42	79	5.0	-	79.69	TARAPACA, CHILE
#- 37	1/9	21	5	2.1	0.73	92.72	17	5.1	-	78.46	OFF THE WEST COAST OF NORTHERN SUMATRA
#- 38	1/9	21	46	2.5	−57.05	−141.47	10	5.3	5.0	53.94	PACIFIC-ANTARCTIC RIDGE
#- 39	1/10	13	47	3.9	4.71	95.12	38	6.0	5.4	82.97	NORTHERN SUMATRA, INDONESIA
#- 40	1/10	16	26	27.6	−10.89	161.95	63	5.1	-	90.85	SOLOMON ISLANDS
#- 41	1/10	21	57	20.0	−16.63	175.26	70	5.0	-	88.90	FIJI REGION
#- 42	1/11	7	47	46.0	−9.50	114.71	76	4.4	-	76.03	SOUTH OF BALI, INDONESIA
#- 43	1/11	9	10	15.2	13.35	92.38	34	5.0	-	90.44	ANDAMAN ISL, INDIA REG.
#- 44	1/11	9	47	23.0	−17.28	−177.39	389	4.8	-	89.89	FIJI REGION
#- 45	1/12	10	22	9.4	−18.83	169.18	229	4.7	-	85.26	VANUATU
#- 46	1/12	13	37	23.1	47.40	153.44	35	5.3	-	141.96	KURIL ISLANDS
#- 47	1/12	14	32	38.7	−53.11	−46.97	15	5.1	-	40.37	SOUTH ATLANTIC OCEAN
#- 48	1/12	21	50	17.5	0.02	−17.06	10	5.1	-	78.48	NORTH OF ASCENSION ISLAND
#- 49	1/13	3	17	42.8	39.18	142.15	51	5.0	-	130.76	NEAR THE EAST COAST OF HONSHU, JAPAN
#- 50	1/13	5	50	38.8	−34.87	−74.07	10	4.6	-	65.26	OFF COAST OF LIBERTADOR O'HIGGINS, CHILE
#- 51	1/13	12	44	8.0	60.59	−153.01	113	5.1	-	170.19	SOUTHERN ALASKA
#- 52	1/13	13	8	48.8	9.51	122.13	48	4.7	-	96.42	NEGROS, PHILIPPINES
#- 53	1/13	17	53	47.8	−7.24	144.01	34	5.3	-	88.53	NR S CST NEW GUINEA, P.N.G.
#- 54	1/13	21	23	27.4	−20.10	−69.20	84	5.5	-	77.54	TARAPACA, CHILE
#- 55	1/14	5	37	43.6	−35.22	−179.47	72	4.7	-	71.98	EAST OF THE NORTH ISLAND, NEW ZEALAND
#- 56	1/14	7	5	54.9	1.93	97.01	23	4.8	-	80.89	NIAS REGION, INDONESIA
#- 57	1/14	23	40	43.5	−2.01	68.08	10	4.8	-	69.78	CARLSBERG RIDGE
#- 58	1/15	12	7	35.6	−4.31	133.07	18	4.5	-	87.43	NEAR S COAST PAPUA, IND.
#- 59	1/15	16	9	36.9	−62.57	−161.35	10	5.5	5.9	47.63	PACIFIC-ANTARCTIC RIDGE
#- 60	1/15	19	4	34.2	−34.80	178.80	162	5.3	-	72.05	SOUTH OF KERMADEC ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 61	1/15	22	34	50.0	−5.74	−80.66	40	4.5	-	94.76	NEAR THE COAST OF NORTHERN PERU
#- 62	1/16	0	7	42.8	−15.10	−70.82	57	4.7	-	82.76	SOUTHERN PERU
#- 63	1/16	21	44	51.0	6.48	126.51	73	4.9	-	95.15	MINDANAO, PHILIPPINES
#- 64	1/18	5	16	15.8	−7.32	130.33	89	4.8	-	83.65	KEPULAUAN TANIMBAR REG, IND.
#- 65	1/20	0	45	57.9	−39.83	174.35	118	4.9	-	66.28	NORTH ISLAND OF NEW ZEALAND
#- 66	1/20	21	26	28.2	54.07	−35.12	10	5.0	-	134.31	REYKJANES RIDGE
#- 67	1/21	11	32	19.2	51.63	−178.34	7	5.1	-	155.33	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 68	1/21	18	32	26.1	−4.45	134.85	27	5.4	-	87.94	NEAR S COAST PAPUA, IND.
#- 69	1/21	22	22	51.9	4.98	95.87	5	5.8	6.0	83.45	NORTHERN SUMATRA, INDONESIA
#- 70	1/21	22	48	6.8	5.05	96.03	10	4.7	-	83.56	N SUMATRA, IND.
#- 71	1/22	8	40	51.5	−61.30	154.06	10	5.3	-	41.75	BALLENY ISLANDS REGION
#- 72	1/23	2	47	38.9	−31.68	−71.47	29	5.0	-	67.44	COQUIMBO, CHILE
#- 73	1/23	4	29	38.3	−34.63	−109.18	14	5.1	-	73.74	SOUTHERN EAST PACIFIC RISE
#- 74	1/23	8	23	0.7	−3.03	130.17	32	5.1	-	87.59	SERAM, INDONESIA
#- 75	1/23	12	39	41.3	−14.83	167.85	87	4.7	-	88.75	VANUATU
#- 76	1/23	17	5	17.3	−3.39	136.35	48	4.8	-	89.45	PAPUA, INDONESIA
#- 77	1/23	21	34	32.5	43.15	145.71	60	5.2	-	135.53	HOKKAIDO, JAPAN REGION
#- 78	1/24	2	17	10.0	−16.62	177.71	34	5.1	-	89.48	FIJI
#- 79	1/24	7	35	42.5	49.83	87.60	42	5.3	-	124.09	RUSSIA-KAZAKHSTAN-XINJIANG BORDER REGION
#- 80	1/24	9	35	54.4	−4.21	122.84	643	5.0	-	83.86	SULAWESI, IND.
#- 81	1/25	5	28	39.4	−55.88	−28.14	114	4.7	-	31.68	SOUTH SANDWICH ISLANDS REGION
#- 82	1/25	14	48	18.2	44.28	10.53	5	5.0	-	115.24	NORTHERN ITALY
#- 83	1/25	19	53	23.3	−24.10	−65.22	5	5.2	-	72.49	JUJUY, ARGENTINA
#- 84	1/25	23	37	1.1	−23.61	43.60	10	5.3	-	45.48	MADAGASCAR
#- 85	1/26	11	1	41.6	−6.13	149.81	41	4.9	-	91.53	NEW BRITAIN REG, P.N.G.
#- 86	1/26	17	31	13.2	5.50	127.06	124	4.9	-	94.44	PHILIPPINE ISLANDS REGION
#- 87	1/27	0	27	18.2	−9.53	121.89	60	4.9	-	78.56	SAVU SEA
#- 88	1/27	4	5	41.5	−5.21	102.87	53	5.1	-	76.00	SOUTHERN SUMATRA, INDONESIA
#- 89	1/27	14	24	12.6	4.95	95.85	46	4.6	-	83.42	NORTHERN SUMATRA, INDONESIA
#- 90	1/27	18	41	48.6	36.53	140.53	71	5.1	-	127.82	NEAR E COAST HONSHU, JAPAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 91	1/27	19	32	40.6	−34.70	−108.94	10	5.2	-	73.63	SOUTHERN EAST PACIFIC RISE
#- 92	1/27	20	57	35.1	27.21	128.36	58	5.2	-	115.05	RYUKYU ISLANDS, JAPAN
#- 93	1/28	4	2	58.8	−4.94	129.34	235	4.8	-	85.51	BANDA SEA
#- 94	1/28	12	0	17.9	−11.07	165.37	35	4.9	-	91.67	SANTA CRUZ ISLANDS
#- 95	1/28	16	38	53.5	42.60	79.72	15	6.1	6.1	115.60	EASTERN KAZAKHSTAN
#- 96	1/28	19	33	15.5	−6.83	129.01	151	4.7	-	83.62	BANDA SEA
#- 97	1/28	21	24	36.4	−22.35	−179.62	590	4.8	-	84.48	SOUTH OF THE FIJI ISLANDS
#- 98	1/29	3	16	36.7	−0.06	122.98	134	4.9	-	87.79	SULAWESI, IND.
#- 99	1/29	13	58	48.1	−4.00	143.02	10	4.3	-	91.22	NEW GUINEA, PAPUA NEW GUINEA
#- 100	1/29	19	30	33.9	−11.20	165.36	30	5.1	-	91.54	SANTA CRUZ ISLANDS
#- 101	1/30	2	32	19.6	10.56	126.68	46	5.4	-	99.02	PHILIPPINE ISLANDS REGION
#- 102	1/30	3	14	28.4	43.57	−127.60	10	5.3	-	153.63	OFF THE COAST OF OREGON
#- 103	1/30	9	27	3.6	32.93	94.67	20	5.2	-	109.76	XIZANG-QINGHAI BORDER REGION
#- 104	1/30	13	25	32.5	−52.20	−5.40	10	4.9	-	26.55	SOUTHERN MID-ATLANTIC RIDGE
#- 105	1/30	20	2	4.6	−23.55	−179.97	562	4.6	-	83.24	SOUTH OF THE FIJI ISLANDS
#- 106	1/30	23	3	43.8	−10.64	166.37	11	5.8	6.0	92.37	SANTA CRUZ ISLANDS
#- 107	1/30	23	53	53.5	−10.52	166.40	10	4.6	-	92.49	SANTA CRUZ ISLANDS
#- 108	1/31	2	26	20.9	49.88	150.75	356	4.3	-	143.08	NORTHWEST OF KURIL ISLANDS
#- 109	1/31	2	45	0.1	−28.50	−67.37	118	4.8	-	69.10	LA RIOJA, ARGENTINA
#- 110	1/31	3	58	0.4	−10.68	166.39	35	5.5	-	92.33	SANTA CRUZ ISLANDS
#- 111	1/31	4	10	46.4	−4.61	102.52	52	5.0	-	76.45	SOUTHERN SUMATRA, INDONESIA
#- 112	1/31	4	15	55.6	−27.88	−70.94	27	4.5	-	70.82	ATACAMA, CHILE
#- 113	1/31	4	31	33.4	−10.93	165.42	33	5.6	-	91.82	SANTA CRUZ ISLANDS
#- 114	1/31	5	10	52.0	−28.08	−70.81	44	4.6	-	70.59	ATACAMA, CHILE
#- 115	1/31	5	16	56.5	−10.49	166.20	14	5.1	-	92.46	SANTA CRUZ ISLANDS
#- 116	1/31	5	18	9.5	−10.59	166.37	10	5.4	-	92.41	SANTA CRUZ ISLANDS
#- 117	1/31	6	42	6.9	−10.68	166.41	10	5.3	-	92.33	SANTA CRUZ ISLANDS
#- 118	2/1	10	39	46.1	−26.56	−178.99	368	4.7	-	80.51	SOUTH OF THE FIJI ISLANDS
#- 119	2/1	17	8	26.7	−0.18	123.08	124	4.9	-	87.71	SULAWESI, INDONESIA
#- 120	2/1	17	21	23.8	−24.08	−66.91	179	4.7	-	73.07	SALTA, ARGENTINA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 121	2/1	22	16	34.4	−10.88	165.41	10	5.2	-	91.86	SANTA CRUZ ISLANDS
#- 122	2/1	22	18	33.2	−11.11	165.33	10	5.7	-	91.62	SANTA CRUZ ISLANDS
#- 123	2/1	22	26	30.2	−11.08	165.35	10	4.8	-	91.65	SANTA CRUZ ISLANDS
#- 124	2/2	1	15	49.7	−11.15	165.39	27	5.0	-	91.60	SANTA CRUZ ISLANDS
#- 125	2/2	1	19	36.0	−6.96	105.40	39	5.1	-	75.19	SUNDA STRAIT, INDONESIA
#- 126	2/2	3	39	51.6	−10.86	165.35	20	4.9	-	91.86	SANTA CRUZ ISLANDS
#- 127	2/2	3	48	6.4	−32.56	−71.60	30	4.0	-	66.66	OFFSHORE VALPARAISO, CHILE
#- 128	2/2	4	16	20.2	−11.09	165.17	29	5.6	-	91.60	SANTA CRUZ ISLANDS.
#- 129	2/2	7	21	20.0	−6.55	130.02	145	4.5	-	84.25	BANDA SEA
#- 130	2/2	11	54	4.0	−9.73	112.96	35	4.5	-	75.20	SOUTH OF JAVA, INDONESIA
#- 131	2/2	18	54	30.4	−10.96	165.31	23	5.1	-	91.76	SANTA CRUZ ISLANDS
#- 132	2/2	19	24	34.7	−11.22	165.20	30	5.2	-	91.48	SANTA CRUZ ISLANDS
#- 133	2/2	20	16	7.5	−31.13	−71.38	49	4.6	-	67.92	COQUIMBO, CHILE
#- 134	2/2	21	0	23.0	−61.32	154.10	10	4.8	-	41.74	BALLENY ISLANDS REGION
#- 135	2/2	21	20	35.2	−11.13	165.32	10	5.1	-	91.60	SANTA CRUZ ISLANDS
#- 136	2/2	22	31	58.7	−11.32	165.11	10	4.7	-	91.36	SANTA CRUZ ISLANDS
#- 137	2/2	22	36	1.9	−10.71	166.55	10	4.6	-	92.35	SANTA CRUZ ISL.
#- 138	2/3	3	8	23.0	−21.43	−178.71	578	4.6	-	85.56	FIJI REGION
#- 139	2/3	3	20	29.0	−29.72	−178.89	198	4.7	-	77.44	KERMADEC ISLANDS, NEW ZEALAND
#- 140	2/3	3	57	32.6	−10.88	165.36	10	5.1	-	91.85	SANTA CRUZ ISLANDS
#- 141	2/3	5	22	9.0	−35.58	−72.94	42	4.4	-	64.25	OFFSHORE MAULE, CHILE
#- 142	2/3	10	12	7.3	−5.43	154.25	139	4.6	-	93.65	BOUGAINVILLE REG, P.N.G.
#- 143	2/3	10	22	40.5	−10.55	166.57	36	4.7	-	92.51	SANTA CRUZ ISLANDS
#- 144	2/3	11	14	56.9	−5.07	153.07	23	5.3	-	93.61	NEW IRELAND REGION, PAPUA NEW GUINEA
#- 145	2/3	11	36	39.6	−5.00	153.22	10	5.0	-	93.72	NEW IRELAND REG, P.N.G.
#- 146	2/3	20	54	43.0	−32.34	−71.38	33	4.6	-	66.80	VALPARAISO, CHILE
#- 147	2/3	22	56	11.8	29.31	142.01	35	5.3	-	121.83	IZU ISLANDS, JAPAN REGION
#- 148	2/3	23	4	18.2	29.33	141.80	49	5.1	-	121.77	IZU ISLANDS, JAPAN REGION
#- 149	2/4	1	20	21.1	−5.55	130.84	59	4.8	-	85.48	BANDA SEA
#- 150	2/4	11	48	42.0	−34.00	−14.71	10	4.7	-	45.75	SOUTHERN MID-ATLANTIC RIDGE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 151	2/4	14	33	2.8	−11.01	165.44	10	4.7	-	91.75	SANTA CRUZ ISLANDS
#- 152	2/5	3	24	52.0	45.52	151.29	47	5.0	-	139.58	KURIL ISLANDS
#- 153	2/5	15	40	8.4	−56.18	−25.30	44	5.0	-	30.45	SOUTH SANDWICH ISL REGION
#- 154	2/5	17	30	50.0	−22.72	−69.04	89	4.5	-	75.03	ANTOFAGASTA, CHILE
#- 155	2/5	19	9	37.6	−62.30	155.22	33	5.0	-	41.14	BALLENY ISLANDS REGION
#- 156	2/5	19	39	39.0	−10.75	164.98	44	5.1	-	91.86	SANTA CRUZ ISLANDS REGION
#- 157	2/5	20	15	10.4	−23.58	−66.83	213	4.6	-	73.51	JUJUY, ARGENTINA
#- 158	2/6	0	7	22.5	−10.87	165.25	14	5.6	6.1	91.83	SANTA CRUZ ISLANDS
#- 159	2/6	1	22	12.8	−11.37	165.77	10	5.6	-	91.50	SANTA CRUZ ISLANDS
#- 160	2/6	1	33	37.2	−10.92	165.09	10	5.6	-	91.73	SANTA CRUZ ISLANDS
#- 161	2/6	1	48	42.6	−11.63	165.94	10	5.7	-	91.30	SANTA CRUZ ISLANDS
#- 162	2/6	2	6	21.0	−10.60	165.36	10	5.2	-	92.12	SANTA CRUZ ISLANDS
#- 163	2/6	2	18	14.6	−11.47	165.61	34	5.2	-	91.36	SANTA CRUZ ISLANDS
#- 164	2/6	2	23	11.8	−10.96	165.40	28	5.3	-	91.78	SANTA CRUZ ISLANDS
#- 165	2/6	2	30	44.4	−10.79	165.11	10	5.5	-	91.86	SANTA CRUZ ISLANDS
#- 166	2/6	2	44	21.2	−11.25	165.09	10	4.9	-	91.42	SANTA CRUZ ISLANDS
#- 167	2/6	2	57	39.6	−10.71	165.05	10	5.1	-	91.92	SANTA CRUZ ISLANDS
#- 168	2/6	3	1	0.3	−11.05	165.13	10	5.6	-	91.63	SANTA CRUZ ISLANDS
#- 169	2/6	3	6	33.2	−11.59	165.38	10	5.1	-	91.18	SANTA CRUZ ISLANDS
#- 170	2/6	3	11	48.0	−10.84	165.28	10	5.2	-	91.86	SANTA CRUZ ISLANDS
#- 171	2/6	3	19	4.2	−10.95	165.24	10	5.2	-	91.74	SANTA CRUZ ISLANDS
#- 172	2/6	3	28	51.9	−11.04	165.42	10	5.3	-	91.72	SANTA CRUZ ISLANDS
#- 173	2/6	3	38	53.7	−10.86	165.31	10	5.2	-	91.85	SANTA CRUZ ISLANDS
#- 174	2/6	3	45	5.8	−10.61	165.34	10	5.3	-	92.10	SANTA CRUZ ISLANDS
#- 175	2/6	3	49	44.9	−10.90	165.50	10	5.5	-	91.87	SANTA CRUZ ISLANDS
#- 176	2/6	4	20	49.9	−10.82	165.55	10	5.2	-	91.96	SANTA CRUZ ISLANDS
#- 177	2/6	5	1	51.3	−11.41	165.06	10	5.2	-	91.26	SANTA CRUZ ISLANDS
#- 178	2/6	5	4	4.7	−11.03	165.47	10	4.9	-	91.74	SANTA CRUZ ISLANDS
#- 179	2/6	5	30	19.4	−10.68	164.27	10	5.1	-	91.73	SANTA CRUZ ISLANDS REGION
#- 180	2/6	6	2	36.8	−10.78	164.57	10	5.2	-	91.72	SANTA CRUZ ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 181	2/6	6	9	37.1	−11.07	164.81	10	5.2	-	91.51	SANTA CRUZ ISLANDS REGION
#- 182	2/6	6	53	20.3	−10.64	164.97	10	5.6	-	91.97	SANTA CRUZ ISLANDS REGION
#- 183	2/6	7	13	48.0	−10.64	165.31	10	5.3	-	92.07	SANTA CRUZ ISLANDS
#- 184	2/6	7	23	12.2	−10.90	165.36	10	5.0	-	91.83	SANTA CRUZ ISLANDS
#- 185	2/6	8	4	35.7	−15.99	−172.22	34	5.0	-	92.14	SAMOA ISLANDS REGION
#- 186	2/6	9	24	0.4	−10.70	164.27	10	5.2	-	91.71	SANTA CRUZ ISLANDS REGION
#- 187	2/6	10	12	30.4	−11.09	165.35	10	5.3	-	91.65	SANTA CRUZ ISLANDS
#- 188	2/6	10	20	34.3	−10.85	165.27	10	5.5	-	91.85	SANTA CRUZ ISLANDS
#- 189	2/6	10	33	17.5	−10.64	164.77	10	5.7	-	91.92	SANTA CRUZ ISLANDS REGION
#- 190	2/6	11	3	45.8	−10.71	165.18	10	5.6	-	91.96	SANTA CRUZ ISLANDS
#- 191	2/6	11	53	55.2	−11.25	165.73	14	5.8	-	91.60	SANTA CRUZ ISLANDS
#- 192	2/6	12	31	56.5	−1.00	146.91	38	5.0	-	95.38	ADMIRALTY ISL REG., P.N.G.
#- 193	2/6	12	44	29.5	−11.59	165.52	10	5.5	-	91.22	SANTA CRUZ ISLANDS
#- 194	2/6	13	37	5.5	−11.09	165.08	10	4.9	-	91.57	SANTA CRUZ ISLANDS
#- 195	2/6	13	50	32.6	−10.58	166.39	10	5.3	5.6	92.42	SANTA CRUZ ISLANDS
#- 196	2/6	13	54	54.1	−10.80	166.49	14	6.0	5.7	92.25	SANTA CRUZ ISLANDS
#- 197	2/6	14	3	50.8	−11.35	165.07	10	5.0	-	91.32	SANTA CRUZ ISLANDS
#- 198	2/6	14	20	57.3	−10.91	165.44	10	5.3	5.4	91.85	SANTA CRUZ ISLANDS
#- 199	2/6	15	54	14.8	−10.92	165.40	10	5.3	-	91.82	SANTA CRUZ ISLANDS
#- 200	2/6	16	35	53.6	−11.29	165.58	10	5.0	-	91.52	SANTA CRUZ ISLANDS
#- 201	2/6	17	19	31.5	−11.65	165.04	10	5.0	-	91.03	SANTA CRUZ ISLANDS
#- 202	2/6	18	17	33.2	−11.07	165.01	10	4.9	-	91.57	SANTA CRUZ ISLANDS
#- 203	2/6	20	18	40.2	46.51	−27.37	14	5.0	-	125.35	NORTHERN MID-ATLANTIC RIDGE
#- 204	2/6	20	42	31.0	−23.23	170.86	10	5.1	-	81.46	SOUTHEAST OF LOYALTY ISLANDS
#- 205	2/6	21	37	36.4	−11.19	165.74	10	4.9	-	91.66	SANTA CRUZ ISLANDS
#- 206	2/6	22	7	39.2	−12.15	166.00	10	4.9	-	90.81	SANTA CRUZ ISLANDS
#- 207	2/6	22	12	18.0	−1.48	100.32	11	5.5	-	78.69	SOUTHERN SUMATRA, INDONESIA
#- 208	2/6	22	20	18.1	−11.09	165.67	10	5.5	-	91.73	SANTA CRUZ ISLANDS
#- 209	2/6	23	23	52.2	−10.86	165.31	9	4.8	-	91.85	SANTA CRUZ ISLANDS
#- 210	2/6	23	49	35.4	−11.77	164.94	11	5.2	-	90.88	SANTA CRUZ ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-211	2/7	0	16	27.8	−10.83	164.88	25	4.8	-	91.76	SANTA CRUZ ISLANDS REGION
#-212	2/7	0	41	31.6	1.43	98.94	83	5.1	-	81.01	NORTHERN SUMATRA, INDONESIA
#-213	2/7	0	56	47.0	−11.67	164.78	35	5.1	-	90.93	SANTA CRUZ ISLANDS REGION
#-214	2/7	2	17	24.7	−10.64	164.82	52	5.2	-	91.93	SANTA CRUZ ISLANDS REGION
#-215	2/7	2	56	29.0	−10.74	165.44	27	4.9	-	92.01	SANTA CRUZ ISLANDS
#-216	2/7	3	52	56.5	−11.67	165.05	35	5.0	-	91.01	SANTA CRUZ ISLANDS
#-217	2/7	7	11	19.7	−10.97	165.49	10	5.3	-	91.80	SANTA CRUZ ISLANDS
#-218	2/7	7	19	51.4	−15.59	−173.14	10	5.1	-	92.37	TONGA
#-219	2/7	7	38	18.6	−33.65	77.59	10	4.8	-	41.37	MID-INDIAN RIDGE
#-220	2/7	8	3	30.4	0.25	98.50	35	4.9	-	79.75	NIAS REGION, INDONESIA
#-221	2/7	9	50	8.0	−11.05	164.82	10	4.7	-	91.54	SANTA CRUZ ISLANDS REGION
#-222	2/7	10	23	29.6	−10.67	164.88	21	4.8	-	91.91	SANTA CRUZ ISLANDS REGION
#-223	2/7	12	36	49.4	−10.82	165.17	10	5.1	-	91.85	SANTA CRUZ ISLANDS
#-224	2/7	13	23	18.1	−10.77	165.43	16	4.8	-	91.98	SANTA CRUZ ISLANDS
#-225	2/7	14	5	56.2	−11.03	164.82	10	5.0	-	91.55	SANTA CRUZ ISLANDS REGION
#-226	2/7	19	48	19.0	−10.87	165.72	10	5.5	-	91.96	SANTA CRUZ ISLANDS
#-227	2/7	20	20	6.9	−10.86	165.71	10	5.2	-	91.97	SANTA CRUZ ISLANDS
#-228	2/7	20	45	18.5	−10.91	165.77	10	5.0	-	91.94	SANTA CRUZ ISLANDS
#-229	2/7	21	38	26.2	−4.42	143.01	112	5.0	-	90.83	NEW GUINEA, PAPUA NEW GUINEA
#-230	2/7	21	40	54.7	−10.89	165.74	20	5.1	-	91.95	SANTA CRUZ ISLANDS
#-231	2/8	0	12	57.6	−11.69	165.47	15	5.1	-	91.11	SANTA CRUZ ISLANDS
#-232	2/8	4	26	16.5	−11.04	165.82	16	5.3	-	91.83	SANTA CRUZ ISLANDS
#-233	2/8	7	4	11.8	−10.95	164.62	10	4.8	-	91.58	SANTA CRUZ ISLANDS REGION
#-234	2/8	11	39	41.9	−10.95	165.90	10	5.1	-	91.94	SANTA CRUZ ISLANDS
#-235	2/8	11	56	11.3	−10.92	165.93	10	5.0	-	91.97	SANTA CRUZ ISLANDS
#-236	2/8	12	3	39.3	−10.90	165.96	10	5.0	-	92.00	SANTA CRUZ ISLANDS
#-237	2/8	12	9	19.5	−10.97	165.88	10	5.1	-	91.91	SANTA CRUZ ISLANDS
#-238	2/8	14	10	38.3	−11.11	165.87	10	5.3	-	91.78	SANTA CRUZ ISLANDS
#-239	2/8	14	14	9.2	−10.97	165.88	10	5.2	-	91.92	SANTA CRUZ ISLANDS
#-240	2/8	15	0	12.5	−10.98	165.87	10	5.2	-	91.89	SANTA CRUZ ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-241	2/8	15	46	12.5	−10.72	166.13	10	4.8	-	92.22	SANTA CRUZ ISLANDS
#-242	2/8	15	56	9.6	−11.37	165.45	10	4.8	-	91.41	SANTA CRUZ ISLANDS
#-243	2/8	17	59	51.7	−6.28	154.78	74	5.8	-	93.02	BOUGAINVILLE REG, P.N.G.
#-244	2/8	18	10	44.5	−10.74	165.97	8	5.3	-	92.16	SANTA CRUZ ISLANDS
#-245	2/8	19	9	10.9	−10.87	166.05	24	5.1	-	92.06	SANTA CRUZ ISLANDS
#-246	2/8	20	5	51.1	−10.95	165.88	25	5.2	-	91.93	SANTA CRUZ ISLANDS
#-247	2/8	22	25	30.6	−10.99	165.81	35	4.9	-	91.87	SANTA CRUZ ISLANDS
#-248	2/8	22	29	44.6	−11.35	165.22	35	4.0	-	91.37	SANTA CRUZ ISLANDS
#-249	2/8	23	15	38.5	−10.91	165.79	35	5.0	-	91.94	SANTA CRUZ ISLANDS
#-250	2/8	23	16	30.5	−11.05	166.72	35	5.3	-	92.07	SANTA CRUZ ISLANDS
#-251	2/9	2	16	56.0	−7.05	117.13	605	4.5	-	79.18	BALI SEA
#-252	2/9	2	47	30.2	−11.35	165.85	20	4.8	-	91.54	SANTA CRUZ ISLANDS
#-253	2/9	2	50	38.5	2.30	99.18	163	4.6	-	81.92	NORTHERN SUMATRA, INDONESIA
#-254	2/9	4	43	8.2	36.88	141.09	38	5.0	-	128.34	NEAR E COAST HONSHU, JAPAN
#-255	2/9	8	4	5.7	−11.24	165.65	10	5.3	-	91.59	SANTA CRUZ ISLANDS
#-256	2/9	12	28	57.3	−11.09	165.73	10	5.1	-	91.75	SANTA CRUZ ISLANDS
#-257	2/9	17	27	5.1	−11.65	165.48	32	5.0	-	91.15	SANTA CRUZ ISLANDS
#-258	2/9	22	14	34.8	−10.99	165.78	37	5.3	-	91.86	SANTA CRUZ ISLANDS
#-259	2/9	22	49	5.8	−10.98	165.75	41	5.1	-	91.86	SANTA CRUZ ISLANDS
#-260	2/10	0	38	43.3	−4.45	131.02	48	4.9	-	86.56	BANDA SEA
#-261	2/10	5	27	10.6	11.13	−62.09	92	5.0	-	104.35	OFFSHORE SUCRE, VENEZUELA
#-262	2/10	6	50	39.6	−10.88	165.87	10	5.0	-	91.99	SANTA CRUZ ISLANDS
#-263	2/10	6	58	54.7	−10.80	165.66	10	4.8	-	92.01	SANTA CRUZ ISLANDS
#-264	2/10	7	8	29.6	−26.99	−70.22	57	4.5	-	71.42	ATACAMA, CHILE
#-265	2/10	9	37	13.5	−18.58	−174.66	132	5.3	-	89.15	TONGA
#-266	2/10	14	48	39.9	−36.68	53.38	10	5.2	-	33.28	SOUTH INDIAN OCEAN
#-267	2/10	19	54	30.0	−33.46	−72.10	47	5.3	-	65.98	OFFSHORE VALPARAISO, CHILE
#-268	2/10	20	0	33.0	−33.45	−72.22	46	5.0	-	66.02	OFFSHORE VALPARAISO, CHILE
#-269	2/10	23	25	12.3	−10.66	164.75	35	5.3	-	91.88	SANTA CRUZ ISLANDS REGION
#-270	2/11	9	40	23.6	−11.06	166.74	34	5.7	-	92.07	SANTA CRUZ ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 271	2/14	3	1	18.8	−7.03	129.76	121	4.6	-	83.71	KEPULAUAN BABAR, INDONESIA
#- 272	2/14	15	8	35.9	67.57	142.53	17	5.0	-	153.50	NORTHEASTERN SAKHA, RUSSIA
#- 273	2/14	16	52	16.5	−4.43	135.26	35	5.3	-	88.09	NEAR S COAST PAPUA, INDONESIA
#- 274	2/14	18	57	21.5	−7.47	119.72	29	4.9	-	79.70	FLORES SEA
#- 275	2/15	3	2	23.1	−19.72	−174.47	74	5.8	-	88.06	TONGA
#- 276	2/16	4	37	36.2	5.81	125.76	105	5.9	-	94.26	MINDANAO, PHILIPPINES
#- 277	2/17	5	42	8.6	36.71	21.69	38	5.0	-	106.49	SOUTHERN GREECE
#- 278	2/17	15	15	2.7	5.00	95.86	12	4.4	-	83.47	NORTHERN SUMATRA, INDONESIA
#- 279	2/17	17	31	50.0	−20.34	−177.95	532	4.8	-	86.79	FIJI REGION
#- 280	2/17	18	27	26.5	−10.85	165.76	35	4.9	-	92.00	SANTA CRUZ ISLANDS
#- 281	2/17	19	18	52.4	−10.84	165.70	10	5.3	-	91.98	SANTA CRUZ ISLANDS
#- 282	2/17	19	23	45.1	−10.80	165.56	10	5.2	-	91.99	SANTA CRUZ ISLANDS
#- 283	2/18	3	40	49.0	5.56	−32.96	10	5.3	5.2	88.86	CENTRAL MID-ATLANTIC RIDGE
#- 284	2/18	4	51	54.8	−3.53	−76.91	103	4.8	-	95.67	NORTHERN PERU
#- 285	2/18	10	0	11.0	−33.94	−72.06	22	5.2	-	65.52	OFFSHORE LIBERTADOR O'HIGGINS, CHILE
#- 286	2/18	10	50	41.2	−10.84	165.68	11	5.3	-	91.98	SANTA CRUZ ISLANDS
#- 287	2/18	16	32	51.1	−30.68	−178.17	84	5.6	-	76.65	KERMADEC ISLANDS, NEW ZEALAND
#- 288	2/19	8	7	42.4	−56.20	−26.92	83	4.9	-	31.00	SOUTH SANDWICH ISL REGION
#- 289	2/19	11	8	27.6	−6.68	104.37	35	4.9	-	75.11	SUNDA STRAIT, INDONESIA
#- 290	2/19	11	52	5.4	−10.38	167.35	10	4.8	-	92.88	SANTA CRUZ ISLANDS
#- 291	2/19	18	55	27.7	−10.46	167.30	79	4.9	-	92.80	SANTA CRUZ ISLANDS
#- 292	2/19	22	15	11.5	−10.97	165.85	37	4.9	-	91.90	SANTA CRUZ ISLANDS
#- 293	2/19	22	28	59.4	−17.42	−173.47	26	5.7	5.3	90.51	TONGA
#- 294	2/20	0	9	18.1	−10.78	166.89	6	5.5	5.4	92.37	SANTA CRUZ ISLANDS
#- 295	2/20	8	47	11.5	50.37	−173.58	24	5.4	-	155.72	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 296	2/20	9	56	5.8	10.58	−41.08	10	5.0	-	96.37	NORTHERN MID-ATLANTIC RIDGE
#- 297	2/20	11	18	53.2	−27.76	−66.44	154	5.1	-	69.49	CATAMARCA, ARGENTINA
#- 298	2/21	10	2	30.8	−50.26	112.29	10	4.7	-	38.39	SOUTHEAST INDIAN RIDGE
#- 299	2/21	14	5	57.1	29.25	142.26	21	5.2	-	121.86	IZU ISLANDS, JAPAN REGION
#- 300	2/21	17	54	3.0	−11.47	165.08	33	4.9	-	91.20	SANTA CRUZ ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 301	2/21	19	50	3.4	−6.36	154.86	54	5.4	-	92.97	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#- 302	2/22	15	14	30.8	−6.81	132.39	11	4.9	-	84.85	KEPULAUAN TANIMBAR REG, IND.
#- 303	2/22	16	17	54.3	−10.87	166.14	35	5.1	-	92.08	SANTA CRUZ ISLANDS
#- 304	2/22	16	25	55.8	−25.33	69.94	10	5.1	-	47.38	INDIAN OCEAN TRIPLE JUNCTION
#- 305	2/22	18	21	49.7	−39.42	177.56	23	5.3	-	67.33	OFF EAST COAST OF THE NORTH ISLAND, N.Z.
#- 306	2/22	21	1	47.7	−15.76	−71.53	10	5.3	-	82.38	SOUTHERN PERU
#- 307	2/22	21	50	50.0	−15.81	−71.60	19	5.2	-	82.36	SOUTHERN PERU
#- 308	2/22	22	19	51.4	−36.20	−99.86	10	4.6	-	70.51	SOUTHEAST OF EASTER ISLAND
#- 309	2/22	22	22	5.5	−11.10	165.70	15	5.2	-	91.74	SANTA CRUZ ISLANDS
#- 310	2/23	6	57	54.5	−29.32	−176.19	11	4.8	-	78.35	KERMADEC ISLANDS REGION
#- 311	2/23	11	9	21.0	−8.52	127.41	35	5.7	-	81.48	EAST TIMOR REGION
#- 312	2/23	14	31	5.0	−11.72	165.04	19	5.6	-	90.95	SANTA CRUZ ISLANDS
#- 313	2/23	17	4	44.9	51.49	−178.04	58	5.2	-	155.31	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 314	2/23	20	58	27.6	−8.57	127.42	44	5.2	-	81.43	EAST TIMOR REGION
#- 315	2/24	13	1	55.3	−8.49	127.20	13	5.1	-	81.43	EAST TIMOR REGION
#- 316	2/24	14	51	20.1	−7.43	128.63	142	4.7	-	82.93	KEPULAUAN BARAT DAYA, IND.
#- 317	2/25	15	14	35.4	−11.11	165.89	10	5.3	5.4	91.78	SANTA CRUZ ISLANDS
#- 318	2/25	16	0	18.7	28.99	131.49	39	5.5	-	117.77	SOUTHEAST OF RYUKYU ISLANDS
#- 319	2/25	16	13	37.6	−7.26	126.93	378	4.6	-	82.48	KEPULAUAN BARAT DAYA, IND.
#- 320	2/25	16	48	11.9	−11.03	165.85	10	4.9	-	91.84	SANTA CRUZ ISLANDS
#- 321	2/25	23	37	59.7	−48.34	−86.86	10	5.5	-	56.09	SOUTHERN PACIFIC OCEAN
#- 322	2/26	3	14	46.0	−27.47	−71.26	39	4.8	-	71.30	OFFSHORE ATACAMA, CHILE
#- 323	2/26	14	6	3.3	−7.03	107.16	138	5.0	-	75.72	JAVA, INDONESIA
#- 324	2/26	15	57	30.7	−21.64	−174.39	38	5.1	-	86.20	TONGA
#- 325	2/26	17	7	34.9	19.15	−67.91	23	5.0	-	113.88	DOMINICAN REPUBLIC REGION
#- 326	2/26	21	43	47.8	53.08	157.93	128	5.6	-	148.27	KAMCHATKA PENINSULA, RUSSIA
#- 327	2/27	4	27	10.3	−31.27	−177.32	35	4.9	-	76.24	KERMADEC ISLANDS REGION
#- 328	2/27	6	49	55.4	−31.04	−177.53	31	5.1	-	76.42	KERMADEC ISLANDS REGION
#- 329	2/27	9	55	24.5	−6.96	128.23	258	4.3	-	83.23	BANDA SEA
#- 330	2/28	3	9	44.0	−17.77	167.34	15	6.1	-	85.79	VANUATU

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 331	3/1	0	34	35.0	−55.62	−27.47	39	4.9	-	31.65	SANDWICH ISL REG.
#- 332	3/2	0	11	8.7	5.50	126.97	89	5.2	-	94.40	MINDANAO, PHILIPPINES
#- 333	3/2	1	19	36.9	−12.85	169.10	646	4.8	-	90.99	SANTA CRUZ ISLANDS REGION
#- 334	3/2	1	32	28.0	−12.59	169.31	416	4.4	-	91.30	SANTA CRUZ ISLANDS REGION
#- 335	3/2	4	18	50.1	−17.58	−178.71	577	4.5	-	89.32	FIJI REGION
#- 336	3/2	11	42	2.0	−22.85	−70.38	51	4.8	-	75.34	OFFSHORE ANTOFAGASTA, CHILE
#- 337	3/2	12	56	34.2	−19.86	−66.70	237	4.6	-	76.94	POTOSI, BOLIVIA
#- 338	3/2	17	32	44.7	−60.37	−26.94	38	5.1	-	27.90	SOUTH SANDWICH ISL REGION
#- 339	3/2	21	47	19.7	−3.53	145.19	10	5.3	-	92.42	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#- 340	3/3	2	27	13.0	−10.20	161.27	105	4.8	-	91.31	SOLOMON ISLANDS
#- 341	3/3	3	25	21.4	−7.19	145.90	194	5.2	-	89.22	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#- 342	3/3	22	24	12.5	2.65	95.69	16	4.9	-	81.17	SIMEULUE, INDONESIA
#- 343	3/4	16	10	3.2	2.19	98.82	132	4.6	-	81.70	NORTHERN SUMATRA, INDONESIA
#- 344	3/4	16	13	25.2	−12.84	169.17	646	4.9	-	91.02	SANTA CRUZ ISLANDS REGION
#- 345	3/4	17	0	31.5	−5.51	104.68	23	4.8	-	76.32	SOUTHERN SUMATRA, INDONESIA
#- 346	3/4	17	19	33.3	−23.88	−66.67	184	4.6	-	73.18	JUJUY, ARGENTINA
#- 347	3/4	17	23	1.1	−8.30	−75.60	27	4.8	-	90.73	CENTRAL PERU
#- 348	3/4	20	56	35.3	50.76	157.29	50	5.3	-	146.14	KURIL ISLANDS
#- 349	3/5	6	6	35.0	−5.26	152.56	28	5.4	-	93.27	NEW BRITAIN REGION, PAPUA NEW GUINEA
#- 350	3/5	6	21	7.8	−5.21	152.62	12	5.2	-	93.33	NEW BRITAIN REG, P.N.G.
#- 351	3/5	8	33	54.4	67.67	142.47	14	5.2	-	153.54	NORTHEASTERN SAKHA, RUSSIA
#- 352	3/5	11	40	18.7	−19.36	167.78	15	4.9	-	84.38	VANUATU REGION
#- 353	3/5	20	32	45.3	27.41	128.30	48	5.3	-	115.21	RYUKYU ISLANDS, JAPAN
#- 354	3/6	1	52	9.2	−31.94	−68.12	54	4.7	-	66.15	SAN JUAN, ARG.
#- 355	3/6	3	57	1.5	−23.97	178.96	543	4.8	-	82.60	SOUTH OF THE FIJI ISLANDS
#- 356	3/6	5	47	43.7	−22.41	170.91	25	4.6	-	82.25	SOUTHEAST OF LOYALTY ISLANDS
#- 357	3/6	7	0	36.1	−31.08	−177.52	31	5.1	-	76.39	KERMADEC ISLANDS REGION
#- 358	3/6	7	30	47.9	−43.31	40.07	10	4.3	-	25.71	PRINCE EDWARD ISLANDS REGION
#- 359	3/6	8	19	18.5	−43.41	39.98	15	4.5	-	25.61	PRINCE EDWARD ISLANDS REGION
#- 360	3/6	8	57	43.6	−43.36	40.19	10	4.6	-	25.66	PRINCE EDWARD ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 361	3/6	9	16	2.3	−22.42	171.00	38	5.2	-	82.27	SOUTHEAST OF LOYALTY ISLANDS
#- 362	3/6	9	53	0.3	−4.82	152.89	58	5.1	-	93.78	NEW BRITAIN REG, P.N.G.
#- 363	3/6	10	30	53.9	−43.47	40.03	10	5.2	-	25.55	PRINCE EDWARD ISLANDS REGION
#- 364	3/6	12	24	32.9	−43.38	39.55	10	4.9	-	25.63	PRINCE EDWARD ISLANDS REGION
#- 365	3/6	12	28	14.5	−43.39	39.72	10	5.1	-	25.63	PRINCE EDWARD ISLANDS REGION
#- 366	3/6	16	49	46.0	28.73	82.22	10	5.0	-	102.70	NEPAL
#- 367	3/6	21	2	52.4	−6.46	106.14	139	4.5	-	75.91	JAVA, INDONESIA
#- 368	3/6	21	45	45.2	−43.30	39.58	10	4.9	-	25.71	PRINCE EDWARD ISLANDS REGION
#- 369	3/6	21	57	5.7	−30.97	−177.75	35	4.8	-	76.45	KERMADEC ISL, NEW ZEALAND
#- 370	3/7	3	36	47.1	24.27	121.43	10	5.6	-	109.92	TAIWAN
#- 371	3/7	20	55	53.9	−18.97	169.39	242	5.5	-	85.18	VANUATU
#- 372	3/8	4	40	23.1	−18.00	−175.73	82	4.5	-	89.51	TONGA
#- 373	3/8	4	55	23.3	−5.25	125.75	35	5.1	-	83.94	BANDA SEA
#- 374	3/8	20	43	26.3	−20.91	−173.69	28	5.2	-	87.05	TONGA
#- 375	3/9	1	57	14.2	6.33	126.03	69	4.6	-	94.84	MINDANAO, PHILIPPINES
#- 376	3/9	5	47	52.1	−21.79	−65.98	272	4.2	-	74.90	POTOSI, BOLIVIA
#- 377	3/9	18	56	42.7	−53.25	21.51	14	5.0	-	17.73	SOUTH OF AFRICA
#- 378	3/9	20	11	31.8	42.64	144.92	45	5.0	-	134.80	HOKKAIDO, JAPAN REGION
#- 379	3/10	5	40	44.4	12.49	141.99	35	5.0	-	106.29	MARIANA ISLANDS REGION
#- 380	3/10	11	14	57.3	−17.41	−179.00	542	4.3	-	89.43	FIJI REGION
#- 381	3/10	16	49	19.7	−5.30	151.51	60	5.5	-	92.88	NEW BRITAIN REGION, PAPUA NEW GUINEA
#- 382	3/10	17	11	5.0	59.28	−154.12	0	5.1	-	168.76	SOUTHERN ALASKA
#- 383	3/10	22	11	11.2	−6.92	148.32	66	4.8	-	90.29	NEW BRITAIN REG, P.N.G.
#- 384	3/10	23	59	16.9	−18.95	−69.00	111	4.8	-	78.55	TARAPACA, CHILE
#- 385	3/11	0	5	47.9	−6.88	148.36	58	4.9	-	90.34	NEW BRITAIN REGION, PAPUA NEW GUINEA
#- 386	3/11	2	15	47.3	−6.68	148.33	22	4.9	-	90.52	NEW BRITAIN REG, P.N.G.
#- 387	3/11	2	20	16.9	−6.66	148.21	48	4.7	-	90.50	NEW BRITAIN REG, P.N.G.
#- 388	3/11	3	1	37.4	40.11	77.50	10	5.4	5.1	112.78	SOUTHERN XINJIANG, CHINA
#- 389	3/11	3	3	32.0	−17.98	−178.51	611	4.7	-	88.97	FIJI REGION
#- 390	3/11	6	21	4.0	−7.43	146.26	183	4.6	-	89.12	E NEW GUINEA REG, P.N.G.

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 391	3/11	8	22	14.8	−6.69	148.39	6	4.8	-	90.53	NEW BRITAIN REG, P.N.G.
#- 392	3/11	9	34	52.0	31.68	131.49	33	5.3	-	120.23	KYUSHU, JAPAN
#- 393	3/11	12	52	12.4	−43.32	39.44	10	5.0	-	25.69	PRINCE EDWARD ISLANDS REGION
#- 394	3/11	13	29	54.2	−11.17	165.05	27	4.8	-	91.49	SANTA CRUZ ISLANDS
#- 395	3/11	14	28	23.8	−56.87	−24.46	10	4.7	-	29.62	SOUTH SANDWICH ISL REGION
#- 396	3/11	18	13	34.7	−9.22	118.45	122	4.5	-	77.62	SUMBAWA REGION, INDONESIA
#- 397	3/11	19	47	0.9	−21.06	−178.20	489	4.6	-	86.03	FIJI REGION
#- 398	3/12	7	52	11.8	−55.43	−27.79	23	4.9	-	31.91	SOUTH SANDWICH ISL REGION
#- 399	3/12	19	49	6.1	−55.16	158.52	22	4.6	-	48.28	MACQUARIE ISLAND REGION
#- 400	3/12	20	10	17.7	−6.81	148.35	65	5.0	-	90.41	NEW BRITAIN REG, P.N.G.
#- 401	3/13	3	12	53.9	60.22	163.36	14	5.6	-	155.60	KAMCHATKA PENINSULA, RUSSIA
#- 402	3/13	12	11	10.2	−6.86	148.63	63	4.9	-	90.45	NEW BRITAIN REG, P.N.G.
#- 403	3/14	3	45	46.5	7.55	−82.79	7	5.1	-	108.05	SOUTH OF PANAMA
#- 404	3/14	15	50	47.9	−15.83	−71.54	11	4.7	-	82.32	SOUTHERN PERU
#- 405	3/15	9	46	45.6	−26.23	70.69	10	4.9	-	46.68	INDIAN OCEAN TRIPLE JUNCTION
#- 406	3/15	13	46	45.3	−3.20	142.86	18	4.7	-	91.92	NR N CST NEW GUINEA, P.N.G.
#- 407	3/16	2	17	28.5	−24.19	−179.91	532	4.6	-	82.63	SOUTH OF THE FIJI ISLANDS
#- 408	3/18	3	54	35.9	−6.26	130.90	76	5.0	-	84.84	BANDA SEA
#- 409	3/18	19	15	3.0	−32.49	−71.90	24	5.0	-	66.82	OFFSHORE VALPARAISO, CHILE
#- 410	3/18	23	44	4.2	2.78	124.44	312	4.8	-	90.96	CELEBES SEA
#- 411	3/19	10	12	59.2	−10.97	165.87	37	4.8	-	91.91	SANTA CRUZ ISLANDS
#- 412	3/19	17	50	59.3	−20.17	66.25	11	5.0	-	51.62	MAURITIUS - REUNION REGION
#- 413	3/19	18	22	54.7	−20.91	176.66	31	5.2	-	85.07	SOUTH OF THE FIJI ISLANDS
#- 414	3/19	18	36	56.1	−16.84	−171.49	24	5.4	-	91.43	SAMOA ISLANDS REGION
#- 415	3/19	19	5	6.7	−0.54	122.96	53	4.4	-	87.33	SULAWESI, INDONESIA
#- 416	3/19	19	50	12.9	3.70	126.83	40	4.5	-	92.67	KEPULAUAN TALAUD, INDONESIA
#- 417	3/19	20	52	7.9	−6.66	148.41	45	4.7	-	90.57	NEW BRITAIN REG, P.N.G.
#- 418	3/20	14	2	28.3	−22.06	−179.50	581	5.1	-	84.79	SOUTH OF THE FIJI ISLANDS
#- 419	3/20	16	53	34.5	−6.88	127.20	415	4.3	-	82.93	BANDA SEA
#- 420	3/20	17	18	10.4	−31.89	−177.51	30	4.9	-	75.60	KERMADEC ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-421	3/20	18	16	9.5	7.44	94.10	35	4.4	-	85.27	NICOBAR ISL, INDIA REGION
#-422	3/20	22	28	59.8	55.55	−35.06	10	5.3	-	135.58	REYKJANES RIDGE
#-423	3/21	5	27	36.0	−22.01	−179.50	602	4.9	-	84.83	SOUTH OF THE FIJI ISLANDS
#-424	3/22	14	18	58.6	−55.14	−21.73	15	5.2	-	29.98	SOUTHWESTERN ATLANTIC OCEAN
#-425	3/22	22	40	54.2	−28.00	−176.59	13	5.3	5.5	79.56	KERMADEC ISLANDS REGION
#-426	3/23	5	28	31.0	−18.73	−175.51	183	4.5	-	88.84	TONGA
#-427	3/23	5	56	3.5	−17.49	−13.90	10	4.7	-	60.88	SOUTHERN MID-ATLANTIC RIDGE
#-428	3/23	8	0	12.0	−15.96	−73.83	35	4.3	-	82.93	SOUTHERN PERU
#-429	3/23	13	14	2.3	−60.68	−19.49	10	5.0	-	25.08	EAST OF SOUTH SANDWICH ISL
#-430	3/24	19	27	32.7	−21.51	169.99	92	5.3	-	82.89	SOUTHEAST OF LOYALTY ISLANDS
#-431	3/24	1	35	56.2	−6.82	148.40	52	5.0	-	90.42	NEW BRITAIN REG, P.N.G.
#-432	3/24	4	18	35.1	50.73	160.16	15	6.1	5.5	147.15	EAST OF THE KURIL ISLANDS
#-433	3/24	21	0	13.7	−12.40	166.02	44	5.1	-	90.58	SANTA CRUZ ISLANDS
#-434	3/25	3	59	52.5	−17.67	−178.42	540	5.2	-	89.29	FIJI REGION
#-435	3/25	4	35	19.2	−17.92	−178.55	590	4.2	-	89.02	FIJI REGION
#-436	3/25	5	25	29.3	−16.62	−171.84	10	5.2	-	91.58	SAMOA ISLANDS REGION
#-437	3/25	5	55	5.4	−59.61	−26.38	10	5.1	-	28.26	SOUTH SANDWICH ISL REGION
#-438	3/25	8	30	2.7	3.03	125.65	141	5.0	-	91.62	KEPULAUAN SANGIHE, INDONESIA
#-439	3/25	11	54	55.2	−11.50	117.18	10	5.2	-	75.05	SOUTH OF SUMBAWA, INDONESIA
#-440	3/25	15	35	51.7	−6.48	129.88	176	4.4	-	84.27	BANDA SEA
#-441	3/25	16	18	13.0	−22.24	−68.41	115	4.6	-	75.28	ANTOFAGASTA, CHILE
#-442	3/26	4	26	20.1	11.11	93.51	136	4.5	-	88.61	ANDAMAN ISL, INDIA REGION
#-443	3/26	6	16	46.0	−17.67	−178.82	544	4.5	-	89.21	FIJI REGION
#-444	3/26	8	21	55.2	19.29	95.10	73	4.3	-	96.88	MYANMAR
#-445	3/26	17	36	28.7	−33.14	−179.45	83	5.3	-	74.01	SOUTH OF KERMADEC ISLANDS
#-446	3/27	5	59	41.7	−57.36	−24.87	10	5.6	-	29.40	SOUTH SANDWICH ISL REGION
#-447	3/27	6	42	46.7	−57.29	−24.94	10	5.5	-	29.47	SOUTH SANDWICH ISL REGION
#-448	3/28	3	34	29.2	−23.60	−175.51	44	5.0	-	84.07	TONGA REGION
#-449	3/28	4	25	35.1	−28.46	−175.47	35	4.9	-	79.32	KERMADEC ISLANDS REGION
#-450	3/28	12	42	30.9	−49.92	127.34	10	4.7	-	43.86	W INDIAN-ANTARCTIC RIDGE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-451	3/28	14	28	2.2	−30.38	−69.36	30	4.8	-	67.99	SAN JUAN, ARGENTINA
#-452	3/28	23	42	38.7	−6.05	129.28	228	4.8	-	84.45	BANDA SEA
#-453	3/29	3	45	58.8	−29.30	−69.29	89	4.6	-	68.97	SAN JUAN, ARG.
#-454	3/29	5	1	10.7	43.45	86.83	27	5.4	-	117.87	NORTHERN XINJIANG, CHINA
#-455	3/29	6	1	5.4	−4.82	151.63	139	5.0	-	93.37	NEW BRITAIN REG, P.N.G.
#-456	3/29	20	38	1.2	−5.43	151.73	71	5.0	-	92.83	NEW BRITAIN REG, P.N.G.
#-457	3/29	23	13	3.6	−7.00	129.44	122	4.7	-	83.62	BANDA SEA
#-458	3/29	23	15	28.3	−35.76	−100.17	10	4.9	-	70.99	SOUTHEAST OF EASTER ISLAND
#-459	3/30	1	50	49.8	9.96	126.23	90	5.3	-	98.30	MINDANAO, PHILIPPINES
#-460	3/30	5	31	24.6	−20.35	−177.91	554	4.5	-	86.78	FIJI REGION
#-461	3/30	21	43	19.4	40.47	−126.15	10	5.1	-	150.39	OFF CST N CALIF
#-462	3/30	21	48	2.6	−20.94	176.51	37	5.0	-	85.01	SOUTH OF THE FIJI ISLANDS
#-463	4/1	0	9	4.1	−5.98	130.52	117	4.2	-	84.96	BANDA SEA
#-464	4/1	13	43	43.7	−22.38	−179.61	587	4.7	-	84.45	SOUTH OF THE FIJI ISLANDS
#-465	4/1	22	2	4.6	−20.78	−178.49	566	5.0	-	86.24	FIJI REGION
#-466	4/2	0	31	26.9	−10.43	161.00	60	4.8	-	91.01	SOLOMON ISLANDS
#-467	4/2	2	8	48.1	39.55	143.23	20	5.2	-	131.48	OFF THE EAST COAST OF HONSHU, JAPAN
#-468	4/2	8	56	48.4	−23.47	−179.69	555	4.9	-	83.38	SOUTH OF THE FIJI ISLANDS
#-469	4/2	11	1	21.1	−40.38	45.34	10	5.2	-	28.83	SOUTHWEST INDIAN RIDGE
#-470	4/2	11	18	29.1	−9.40	123.64	91	4.3	-	79.31	TIMOR REGION, INDONESIA
#-471	4/2	12	56	23.5	−40.41	45.37	10	4.7	-	28.80	SOUTHWEST INDIAN RIDGE
#-472	4/2	14	34	54.9	−40.46	45.37	9	5.9	5.7	28.75	SOUTHWEST INDIAN RIDGE
#-473	4/2	15	13	41.2	−7.36	128.56	157	5.5	-	82.97	KEPULAUAN BARAT DAYA, IND.
#-474	4/3	12	14	45.1	−2.42	138.75	35	5.3	-	91.21	PAPUA, INDONESIA
#-475	4/3	16	35	45.0	19.24	95.66	6	5.8	5.1	96.99	MYANMAR
#-476	4/3	18	41	30.4	36.75	143.98	35	5.0	-	129.25	OFF E COAST OF HONSHU, JAPAN
#-477	4/4	2	20	34.3	−23.86	−66.67	187	4.8	-	73.20	JUJUY, ARGENTINA
#-478	4/4	2	27	6.0	15.83	121.73	38	5.3	-	102.19	LUZON, PHILIPPINES
#-479	4/4	4	42	41.7	35.87	140.73	35	5.0	-	127.30	NR E CST HONSHU, JAPAN
#-480	4/4	11	41	8.6	−34.67	−71.68	48	4.7	-	64.72	LIBERTADOR O'HIGGINS, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-481	4/4	14	10	15.0	−5.56	147.21	181	5.5	-	91.20	EASTERN NEW GUINEA REG, PAPUA NEW GUINEA
#-482	4/4	15	1	13.9	48.00	148.68	370	4.5	-	140.76	NORTHWEST OF KURIL ISLANDS
#-483	4/4	15	16	27.7	19.24	95.73	18	5.6	-	97.02	MYANMAR
#-484	4/5	0	39	44.7	−56.38	−26.60	56	5.1	-	30.76	SOUTH SANDWICH ISL REGION
#-485	4/5	1	58	48.7	17.24	−100.54	35	5.3	5.0	122.48	GUERRERO, MEXICO
#-486	4/5	10	0	3.1	−31.95	−176.92	33	4.6	-	75.65	KERMADEC ISLANDS REGION
#-487	4/5	13	12	35.3	−15.27	−172.51	41	5.0	-	92.79	SAMOA ISLANDS REGION
#-488	4/5	14	4	4.0	56.94	−156.26	64	5.0	-	166.16	ALASKA PENINSULA
#-489	4/5	17	35	31.2	0.29	98.69	50	5.5	-	79.85	NIAS REGION, INDONESIA
#-490	4/5	19	55	54.6	−4.33	152.72	21	5.2	-	94.19	NEW BRITAIN REG, P.N.G.
#-491	4/6	0	29	55.1	42.73	130.98	564	5.5	-	129.98	CHINA-RUSSIA-NORTH KOREA BORDER REGION
#-492	4/6	4	42	35.7	−3.51	138.48	66	6.6	-	90.09	PAPUA, INDONESIA
#-493	4/6	7	50	31.1	−3.52	138.43	71	5.2	-	90.07	PAPUA, INDONESIA
#-494	4/6	10	4	10.5	−3.46	138.43	85	4.7	-	90.13	PAPUA, INDONESIA
#-495	4/6	10	29	20.9	−55.71	−123.23	10	5.1	-	54.61	SOUTHERN EAST PACIFIC RISE
#-496	4/6	11	26	7.7	34.89	24.09	35	5.3	-	104.48	CRETE, GREECE
#-497	4/6	12	27	1.1	−19.46	−175.06	77	5.1	-	88.21	TONGA
#-498	4/6	12	27	56.6	−4.19	142.44	119	5.1	-	90.84	NEW GUINEA, PAPUA NEW GUINEA
#-499	4/7	8	40	37.8	−8.00	−79.55	72	4.6	-	92.27	NR CST N PERU
#-500	4/7	11	8	31.8	−25.88	179.81	494	4.8	-	80.92	SOUTH OF THE FIJI ISLANDS
#-501	4/7	14	22	20.9	−55.73	−26.71	16	5.0	-	31.30	SOUTH SANDWICH ISL REGION
#-502	4/7	16	43	37.8	−21.05	−178.56	547	4.6	-	85.97	FIJI REGION
#-503	4/7	18	13	9.7	−2.19	68.21	10	4.6	-	69.63	CARLSBERG RIDGE
#-504	4/7	23	32	37.7	−29.44	−67.98	95	4.7	-	68.42	LA RIOJA, ARGENTINA
#-505	4/9	0	32	24.9	−5.72	−80.24	36	4.2	-	94.65	NEAR THE COAST OF NORTHERN PERU
#-506	4/9	8	42	24.5	−23.50	−64.50	24	4.5	-	72.81	SALTA, ARGENTINA
#-507	4/9	19	45	36.7	−2.84	139.16	49	4.7	-	90.96	NEAR N COAST PAPUA, IND.
#-508	4/9	20	43	47.9	5.62	93.31	29	4.7	-	83.30	OFF WEST COAST OF N SUMATRA
#-509	4/9	23	0	18.4	−22.77	69.16	10	4.6	-	49.69	MID-INDIAN RIDGE
#-510	4/10	1	15	22.5	−2.97	139.07	55	4.8	-	90.80	NEAR N COAST PAPUA, IND.

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 511	4/10	1	58	27.9	28.45	51.61	10	5.6	-	97.90	SOUTHERN IRAN
#- 512	4/10	7	59	59.7	28.44	51.74	10	5.2	-	97.89	SOUTHERN IRAN
#- 513	4/10	13	4	29.9	−17.76	167.79	10	4.6	-	85.92	VANUATU
#- 514	4/10	16	20	20.9	−10.75	−75.26	101	5.1	-	88.31	CENTRAL PERU
#- 515	4/11	1	48	47.1	−15.99	−178.71	405	4.4	-	90.87	FIJI REGION
#- 516	4/12	10	34	11.2	4.46	127.74	103	5.4	-	93.71	KEPULAUAN TALAUD, INDONESIA
#- 517	4/12	16	22	24.0	−17.61	−178.95	501	4.9	-	89.24	FIJI REGION
#- 518	4/12	20	33	17.5	34.37	134.83	14	5.7	5.5	123.85	NEAR S. COAST OF WESTERN HONSHU, JAPAN
#- 519	4/15	6	50	54.4	−23.94	−179.92	503	4.4	-	82.87	SOUTH OF THE FIJI ISLANDS
#- 520	4/15	6	57	50.0	2.59	92.38	31	4.7	-	80.13	OFF W CST N SUMATRA
#- 521	4/15	16	21	50.8	−32.14	−179.30	67	4.8	-	75.01	SOUTH OF KERMADEC ISLANDS
#- 522	4/15	22	44	3.0	−11.70	164.90	10	4.8	-	90.93	SANTA CRUZ ISLANDS REGION
#- 523	4/15	22	57	3.4	−15.95	−177.48	415	5.1	-	91.17	FIJI REGION
#- 524	4/16	3	48	44.4	1.05	125.06	87	5.0	-	89.56	MOLUCCA SEA
#- 525	4/16	6	39	53.0	−34.71	−71.54	44	4.8	-	64.64	LIBERTADOR O'HIGGINS, CHILE
#- 526	4/16	9	5	28.3	−11.70	165.25	10	5.0	-	91.03	SANTA CRUZ ISLANDS
#- 527	4/16	11	26	6.4	−6.14	104.73	53	5.2	-	75.74	SUNDA STRAIT, INDONESIA
#- 528	4/16	14	15	25.1	−6.73	154.25	43	4.4	-	92.43	BOUGAINVILLE REG, P.N.G.
#- 529	4/16	14	40	30.8	−7.50	128.83	160	4.2	-	82.94	KEPULAUAN BARAT DAYA, IND.
#- 530	4/16	15	43	2.1	−4.16	102.12	79	4.3	-	76.74	SOUTHERN SUMATRA, INDONESIA
#- 531	4/16	15	49	51.8	−24.26	−67.06	164	4.4	-	72.95	SALTA, ARGENTINA
#- 532	4/16	18	22	29.4	−2.24	99.69	25	5.0	-	77.77	KEPULAUAN MENTAWAI REG, IND.
#- 533	4/16	21	54	54.3	−6.56	129.82	170	4.7	-	84.17	BANDA SEA
#- 534	4/17	3	15	53.7	28.19	62.31	68	5.7	-	98.69	IRAN-PAKISTAN BORDER REGION
#- 535	4/17	4	55	30.4	−41.75	−83.49	10	4.6	-	61.43	WEST CHILE RISE
#- 536	4/17	5	5	2.8	−2.78	138.70	45	5.6	-	90.86	PAPUA, INDONESIA
#- 537	4/17	9	51	10.9	7.26	124.99	42	5.1	-	95.34	MINDANAO, PHILIPPINES
#- 538	4/17	11	11	58.6	24.84	123.24	10	5.0	-	111.07	SW RYUKYU ISLANDS, JAPAN
#- 539	4/17	18	13	7.4	−10.85	161.83	11	4.9	-	90.85	SOLOMON ISLANDS
#- 540	4/17	20	30	41.3	45.55	143.16	309	4.2	-	136.70	HOKKAIDO, JAPAN REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 541	4/18	14	8	36.5	24.94	123.34	17	5.3	-	111.20	SW RYUKYU ISLANDS, JAPAN
#- 542	4/18	21	20	18.8	−46.15	34.71	10	4.9	-	22.96	PRINCE EDWARD ISLANDS REGION
#- 543	4/18	21	26	36.7	−34.33	−109.18	10	5.3	-	74.03	SOUTHERN EAST PACIFIC RISE
#- 544	4/19	8	57	2.9	−20.93	−178.78	576	4.8	-	86.04	FIJI REGION
#- 545	4/19	10	0	36.6	−17.60	−174.52	67	4.6	-	90.13	TONGA
#- 546	4/19	17	25	17.6	−14.97	166.83	53	5.2	-	88.34	VANUATU
#- 547	4/19	17	51	42.0	−11.94	121.66	19	6.0	5.4	76.23	SOUTH OF TIMOR
#- 548	4/19	19	58	41.0	49.96	157.67	20	5.9	6.1	145.62	EAST OF THE KURIL ISLANDS
#- 549	4/19	19	59	27.5	39.74	143.29	22	5.0	-	131.67	OFF E COAST OF HONSHU, JAPAN
#- 550	4/19	21	41	5.3	27.06	53.86	10	5.0	-	96.68	SOUTHERN IRAN
#- 551	4/20	0	2	47.5	30.28	102.94	14	6.5	6.8	109.56	WESTERN SICHUAN, CHINA
#- 552	4/20	0	30	29.1	1.50	30.80	23	5.0	-	70.73	LAKE ALBERT REGION, UGANDA
#- 553	4/20	1	11	50.7	30.22	102.87	10	5.0	-	109.49	WESTERN SICHUAN, CHINA
#- 554	4/20	3	42	1.9	−5.00	152.11	64	5.6	-	93.36	NEW BRITAIN REG, P.N.G.
#- 555	4/20	4	51	11.6	−6.29	130.21	105	6.0	-	84.56	BANDA SEA
#- 556	4/20	5	11	57.3	−54.77	1.18	9	5.4	-	22.21	BOUVET ISLAND REGION
#- 557	4/20	13	18	8.6	50.02	157.41	10	5.3	-	145.58	KURIL ISLANDS
#- 558	4/20	20	53	43.0	30.33	103.07	10	5.2	-	109.65	EASTERN SICHUAN, CHINA
#- 559	4/21	3	22	16.9	29.93	138.94	427	5.7	-	121.29	IZU ISLANDS, JAPAN REGION
#- 560	4/21	4	42	23.4	0.36	97.34	19	4.4	-	79.50	NIAS REGION, INDONESIA
#- 561	4/21	12	35	29.1	−6.60	148.21	64	4.6	-	90.56	NEW BRITAIN REG, P.N.G.
#- 562	4/21	13	48	29.3	51.65	−178.25	44	5.9	4.9	155.38	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 563	4/21	23	5	2.7	−4.47	104.57	198	4.4	-	77.26	SOUTHERN SUMATRA, INDONESIA
#- 564	4/22	9	11	56.6	42.87	122.28	24	5.0	-	127.19	NEI MONGOL-LIAONING BORDER REGION, CHINA
#- 565	4/22	10	22	40.5	50.06	157.51	18	5.2	-	145.65	KURIL ISLANDS
#- 566	4/22	13	5	22.6	−5.55	147.28	188	4.6	-	91.24	E NEW GUINEA REG, P.N.G.
#- 567	4/22	13	16	17.6	50.00	157.41	43	5.1	-	145.56	EAST OF THE KURIL ISLANDS
#- 568	4/22	15	40	0.9	−17.67	−178.77	546	4.3	-	89.22	FIJI REGION
#- 569	4/22	21	4	2.4	−34.18	179.41	137	4.5	-	72.78	SOUTH OF KERMADEC ISLANDS
#- 570	4/22	23	40	46.4	−29.78	−176.20	6	5.5	-	77.90	KERMADEC ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 571	4/23	6	20	21.9	−23.42	−66.63	198	4.5	-	73.59	JUJUY, ARG.
#- 572	4/23	23	14	42.6	−3.92	152.12	22	6.0	6.4	94.39	NEW IRELAND REGION, PAPUA NEW GUINEA
#- 573	4/24	5	1	49.0	−4.86	139.45	50	4.7	-	89.18	PAPUA, INDONESIA
#- 574	4/24	14	8	56.4	−18.68	169.24	220	5.3	-	85.42	VANUATU
#- 575	4/25	3	51	51.6	−23.12	−67.33	61	4.7	-	74.10	ANTOFAGASTA, CHILE
#- 576	4/25	18	2	11.5	17.37	147.19	50	5.0	-	112.67	MARIANA ISLANDS REGION
#- 577	4/25	22	22	56.7	50.06	157.77	8	5.0	-	145.74	KURIL ISLANDS
#- 578	4/25	22	32	52.2	50.21	157.52	23	5.0	-	145.78	KURIL ISLANDS
#- 579	4/26	1	13	35.0	−21.53	−68.14	114	4.4	-	75.85	POTOSI, BOLIVIA
#- 580	4/26	3	15	49.6	51.47	−177.85	21	5.0	-	155.36	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 581	4/26	20	10	17.5	−16.79	−177.04	64	4.9	-	90.44	FIJI REGION
#- 582	4/27	21	51	31.3	−18.26	−69.24	110	5.1	-	79.28	TARAPACA, CHILE
#- 583	4/27	22	5	19.3	−4.84	153.31	67	4.6	-	93.90	NEW IRELAND REG, P.N.G.
#- 584	4/29	1	41	33.9	−3.14	136.98	41	4.8	-	89.92	PAPUA, INDONESIA
#- 585	4/29	13	1	44.5	35.69	140.96	35	5.3	-	127.22	NEAR THE EAST COAST OF HONSHU, JAPAN
#- 586	4/29	13	42	59.2	3.86	95.88	61	5.0	-	82.39	OFF WEST COAST OF N SUMATRA
#- 587	4/30	1	3	36.2	51.27	92.39	17	5.3	-	126.49	SOUTHWESTERN SIBERIA, RUSSIA
#- 588	4/30	3	57	5.6	−28.60	−70.20	95	4.9	-	69.91	ATACAMA, CHILE
#- 589	4/30	10	33	6.1	0.15	119.83	37	5.3	-	86.87	MINAHASA, SULAWESI, IND.
#- 590	4/30	10	57	7.9	−33.53	−70.54	82	5.0	-	65.44	REGION METROPOLITANA, CHILE
#- 591	4/30	14	39	16.7	−65.39	179.53	10	5.3	-	42.80	BALLENY ISLANDS REGION
#- 592	5/1	0	48	0.5	−17.81	167.64	45	4.6	-	85.83	VANUATU
#- 593	5/1	5	38	0.1	14.94	123.28	34	5.3	-	101.89	LUZON, PHILIPPINES
#- 594	5/1	7	0	24.8	−32.47	−69.33	115	4.9	-	66.04	MENDOZA, ARGENTINA
#- 595	5/1	9	51	27.8	−17.58	167.79	10	5.1	-	86.10	VANUATU
#- 596	5/1	10	15	48.6	−6.38	130.32	161	4.3	-	84.51	BANDA SEA
#- 597	5/2	19	40	52.4	2.75	91.57	15	5.3	-	80.05	OFF THE WEST COAST OF NORTHERN SUMATRA
#- 598	5/2	21	8	51.3	−11.52	117.16	35	4.6	-	75.02	SOUTH OF SUMBAWA, INDONESIA
#- 599	5/3	6	10	11.2	52.69	157.17	153	5.5	-	147.67	KAMCHATKA PENINSULA, RUSSIA
#- 600	5/3	9	18	18.1	−28.11	−72.38	10	5.2	-	71.06	OFF THE COAST OF ATACAMA, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 601	5/3	10	21	3.9	−3.12	130.12	45	4.5	-	87.48	SERAM, INDONESIA
#- 602	5/3	12	15	38.1	−6.30	127.97	374	4.5	-	83.75	BANDA SEA
#- 603	5/4	3	24	18.0	−27.89	−66.79	138	4.2	-	69.48	CATAMARCA, ARGENTINA
#- 604	5/4	4	6	18.1	−12.67	−77.60	41	4.6	-	87.23	NEAR COAST OF CENTRAL PERU
#- 605	5/4	6	27	40.3	1.82	126.33	35	5.0	-	90.74	MOLUCCA SEA
#- 606	5/4	9	44	46.9	−18.60	−177.91	584	5.0	-	88.49	FIJI REGION
#- 607	5/4	23	39	7.3	−54.66	−135.97	10	5.0	-	56.27	PACIFIC-ANTARCTIC RIDGE
#- 608	5/5	0	59	3.2	−23.39	179.93	556	4.6	-	83.37	SOUTH OF THE FIJI ISLANDS
#- 609	5/5	13	18	58.7	−9.38	−79.01	53	5.1	-	90.79	OFF COAST OF NORTHERN PERU
#- 610	5/5	19	59	43.3	−14.91	166.89	40	4.9	-	88.41	VANUATU
#- 611	5/6	2	15	50.2	−4.56	144.80	50	4.5	-	91.32	NEAR NORTH COAST OF NEW GUINEA, P.N.G.
#- 612	5/6	11	44	11.5	−8.20	107.77	58	4.4	-	74.83	JAVA, INDONESIA
#- 613	5/6	19	50	23.3	−9.19	107.88	32	5.0	-	73.94	SOUTH OF JAVA, INDONESIA
#- 614	5/9	13	56	42.5	1.34	128.15	115	5.0	-	90.94	HALMAHERA, INDONESIA
#- 615	5/9	14	13	20.9	−55.79	−27.25	10	4.9	-	31.44	SOUTH SANDWICH ISL REGION
#- 616	5/10	6	27	55.2	−53.11	25.68	19	4.7	-	17.07	SOUTH OF AFRICA
#- 617	5/10	8	38	27.5	67.54	139.29	13	5.4	-	152.52	NORTHEASTERN SAKHA, RUSSIA
#- 618	5/10	10	55	36.5	−17.64	−178.80	541	4.3	-	89.24	FIJI REGION
#- 619	5/10	11	18	41.8	−18.00	168.55	150	4.6	-	85.90	VANUATU
#- 620	5/10	19	56	4.8	−28.96	−13.23	8	5.5	5.6	49.91	SOUTHERN MID-ATLANTIC RIDGE
#- 621	5/10	20	49	29.9	14.10	−91.36	89	5.1	-	116.90	GUATEMALA
#- 622	5/11	2	19	12.5	−15.93	−72.33	102	4.7	-	82.48	SOUTHERN PERU
#- 623	5/11	2	29	46.0	26.75	57.95	35	4.6	-	96.76	SOUTHERN PERU
#- 624	5/11	2	32	45.8	26.81	57.80	27	4.5	-	96.80	SOUTHERN PERU
#- 625	5/11	3	9	53.5	26.69	57.94	27	5.3	-	96.69	SOUTHERN PERU
#- 626	5/11	4	37	48.0	−18.54	−173.67	43	4.7	-	89.37	TONGA
#- 627	5/12	0	7	1.7	26.74	57.78	10	5.5	-	96.72	SOUTHERN IRAN
#- 628	5/12	9	7	25.7	−6.46	154.23	48	4.8	-	92.67	BOUGAINVILLE REG, P.N.G.
#- 629	5/12	10	54	50.7	26.79	57.74	26	5.4	-	96.78	SOUTHERN IRAN
#- 630	5/12	11	58	46.2	−22.08	170.26	18	4.8	-	82.41	SOUTHEAST OF LOYALTY ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 631	5/12	12	51	53.5	−21.01	−68.55	131	5.3	-	76.47	ANTOFAGASTA, CHILE
#- 632	5/12	12	59	11.7	−26.18	−69.22	8	5.5	-	71.86	ATACAMA, CHILE
#- 633	5/12	19	6	11.8	−7.64	128.01	171	4.4	-	82.52	KEPULAUAN BARAT DAYA, IND.
#- 634	5/12	20	6	46.0	52.51	−171.94	45	5.8	-	158.09	FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 635	5/12	22	42	45.6	44.03	147.81	53	5.6	-	137.04	KURIL ISLANDS
#- 636	5/12	23	5	27.8	21.94	143.74	165	5.1	-	115.68	MARIANA ISLANDS REGION
#- 637	5/13	13	54	7.6	−7.95	−79.91	56	4.9	-	92.43	NEAR COAST OF NORTHERN PERU
#- 638	5/14	10	19	6.9	56.20	162.70	10	5.0	-	152.42	NR E CST KAMCHATKA, RUSSIA
#- 639	5/14	21	31	16.4	−18.62	−173.45	7	4.9	-	89.33	TONGA
#- 640	5/14	23	39	16.6	−15.59	−73.18	110	5.7	-	83.07	SOUTHERN PERU
#- 641	5/15	1	21	43.5	−5.49	151.69	42	4.9	-	92.76	NEW BRITAIN REGION, PAPUA NEW GUINEA
#- 642	5/15	8	2	33.8	−27.19	−178.00	147	4.9	-	80.08	KERMADEC ISLANDS REGION
#- 643	5/15	10	22	17.0	1.06	97.44	42	4.8	-	80.20	NIAS REGION, INDONESIA
#- 644	5/15	10	58	42.4	−4.55	153.21	68	5.0	-	94.15	NEW IRELAND REG, P.N.G.
#- 645	5/15	11	47	57.0	−24.95	−70.22	60	4.1	-	73.33	ANTOFAGASTA, CHILE
#- 646	5/15	13	51	42.8	46.14	151.13	113	5.3	-	140.05	KURIL ISLANDS
#- 647	5/15	16	31	23.6	−18.53	−71.40	59	4.3	-	79.73	OFF COAST OF TARAPACA, CHILE
#- 648	5/16	3	18	24.4	−53.06	22.18	16	5.3	-	17.77	SOUTH OF AFRICA
#- 649	5/16	5	19	40.7	−52.88	10.37	10	4.9	-	20.90	SOUTHWEST OF AFRICA
#- 650	5/16	5	42	51.2	−53.00	22.41	17	5.0	-	17.78	SOUTH OF AFRICA
#- 651	5/16	5	57	3.1	−57.58	−6.93	13	5.7	-	22.83	SOUTHERN MID-ATLANTIC RIDGE
#- 652	5/16	16	26	55.6	−11.59	113.64	5	4.4	-	73.70	SOUTH OF JAVA, INDONESIA
#- 653	5/16	18	27	8.4	−22.15	−179.56	585	5.1	-	84.68	SOUTH OF THE FIJI ISLANDS
#- 654	5/16	23	13	28.1	−41.40	−87.73	10	5.0	-	62.83	WEST CHILE RISE
#- 655	5/17	6	56	57.0	−19.19	−69.20	120	4.4	-	78.39	TARAPACA, CHILE
#- 656	5/17	8	32	39.4	−6.25	154.41	69	5.4	-	92.93	BOUGAINVILLE REG, P.N.G.
#- 657	5/17	11	14	41.7	−20.79	−178.75	596	4.7	-	86.18	FIJI REGION
#- 658	5/17	16	29	52.2	−10.48	−75.23	39	4.5	-	88.55	CENTRAL PERU
#- 659	5/17	21	23	29.4	−6.10	149.86	69	4.8	-	91.58	NEW BRITAIN REG, P.N.G.
#- 660	5/17	21	42	21.0	−35.28	−105.88	12	4.8	-	72.54	SOUTHERN EAST PACIFIC RISE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 661	5/17	21	43	48.2	−6.53	130.17	136	4.4	-	84.32	BANDA SEA
#- 662	5/18	5	17	13.0	−17.89	−178.63	631	4.6	-	89.03	FIJI REGION
#- 663	5/18	10	57	47.0	26.50	57.71	15	5.5	5.4	96.49	SOUTHERN IRAN
#- 664	5/18	11	43	51.2	−21.18	168.52	24	4.9	-	82.83	LOYALTY ISLANDS
#- 665	5/18	15	35	57.3	−8.97	124.14	95	4.7	-	79.89	KEPULAUAN ALOR, INDONESIA
#- 666	5/18	17	19	29.8	−28.27	178.50	628	4.7	-	78.33	KERMADEC ISLANDS REGION
#- 667	5/18	23	25	9.5	−60.28	−33.22	10	4.8	-	30.12	SCOTIA SEA
#- 668	5/19	11	2	5.9	−30.57	−177.75	8	4.8	-	76.84	KERMADEC ISL, NEW ZEALAND
#- 669	5/19	17	44	45.4	52.43	160.32	40	5.1	-	148.59	OFF E CST KAMCHATKA, RUSSIA
#- 670	5/19	19	21	28.0	52.38	160.10	54	5.1	-	148.48	OFF E CST KAMCHATKA, RUSSIA
#- 671	5/19	19	43	22.5	52.40	160.10	53	5.0	-	148.50	OFF E CST KAMCHATKA, RUSSIA
#- 672	5/19	19	51	28.5	52.43	160.14	54	5.1	-	148.54	OFF E CST KAMCHATKA, RUSSIA
#- 673	5/19	19	53	18.8	52.71	158.84	93	5.1	-	148.29	NR E COAST KAMCHATKA, RUSSIA
#- 674	5/19	20	20	12.6	52.41	159.99	44	5.1	-	148.46	OFF E CST KAMCHATKA, RUSSIA
#- 675	5/19	20	38	49.4	−20.78	−177.56	341	4.8	-	86.43	FIJI REGION
#- 676	5/19	21	5	17.0	52.35	160.09	43	5.1	-	148.45	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 677	5/19	22	38	50.4	52.36	160.22	40	5.0	-	148.50	OFF E CST KAMCHATKA, RUSSIA
#- 678	5/19	23	50	25.0	52.75	159.16	73	5.1	-	148.44	OFF E CST KAMCHATKA, RUSSIA
#- 679	5/19	23	51	35.2	52.37	159.99	50	5.2	-	148.42	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 680	5/20	0	13	17.7	52.27	160.23	39	5.4	-	148.43	OFF E CST KAMCHATKA, RUSSIA
#- 681	5/20	1	7	39.2	52.42	160.12	43	5.0	-	148.51	OFF E CST KAMCHATKA, RUSSIA
#- 682	5/20	7	26	52.9	5.87	126.95	121	4.9	-	94.74	MINDANAO, PHILIPPINES
#- 683	5/20	14	55	46.6	0.49	123.79	210	4.6	-	88.59	MINAHASA, SULAWESI, IND.
#- 684	5/20	20	13	54.8	52.32	160.32	32	5.0	-	148.50	OFF E CST KAMCHATKA, RUSSIA
#- 685	5/20	23	7	34.9	2.77	128.62	229	4.7	-	92.45	HALMAHERA, IND.
#- 686	5/20	23	1	25.4	52.43	160.22	17	5.3	-	148.56	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 687	5/21	3	5	50.7	52.37	160.36	14	5.5	-	148.56	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 688	5/21	4	24	7.4	52.34	160.42	29	5.0	-	148.55	OFF E CST KAMCHATKA, RUSSIA
#- 689	5/21	8	25	54.0	23.42	123.69	13	5.6	-	109.91	SW RYUKYU ISLANDS, JAPAN
#- 690	5/21	9	46	52.4	−60.81	152.09	10	4.7	-	41.71	WEST OF MACQUARIE ISLAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 691	5/21	12	51	56.7	−45.59	−76.59	29	5.3	-	56.03	OFF COAST OF AISEN, CHILE
#- 692	5/21	13	27	50.0	−15.06	−71.34	107	5.2	-	82.97	SOUTHERN PERU
#- 693	5/21	14	51	20.0	52.55	160.61	41	5.3	-	148.80	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 694	5/21	14	51	48.0	45.15	142.86	271	5.1	-	136.25	HOKKAIDO, JAPAN REGION
#- 695	5/21	18	52	0.7	−6.53	154.58	64	5.0	-	92.72	BOUGAINVILLE REG, P.N.G.
#- 696	5/21	23	10	45.8	−20.63	−69.67	97	4.6	-	77.20	TARAPACA, CHILE
#- 697	5/22	11	35	22.2	−30.43	−177.66	35	4.9	-	76.99	KERMADEC ISL, NEW ZEALAND
#- 698	5/22	14	33	46.3	−59.59	−27.51	162	4.6	-	28.66	SOUTH SANDWICH ISL REGION
#- 699	5/23	9	29	47.5	2.32	124.71	261	4.9	-	90.63	CELEBES SEA
#- 700	5/23	21	7	45.9	−20.56	−175.82	149	5.8	-	86.99	TONGA
#- 701	5/23	21	15	58.6	−20.59	−175.71	154	5.0	-	86.98	TONGA
#- 702	5/23	22	44	58.5	27.23	53.50	41	5.2	-	96.83	S IRAN
#- 703	5/24	1	10	2.8	−54.42	158.88	9	5.4	-	49.04	MACQUARIE ISLAND REGION
#- 704	5/24	1	50	57.2	−25.52	179.79	504	5.0	-	81.27	SOUTH OF THE FIJI ISLANDS
#- 705	5/24	5	27	34.1	−4.63	133.68	33	4.5	-	87.35	NEAR S COAST PAPUA, IND.
#- 706	5/24	7	32	4.8	54.95	153.60	602	4.3	-	148.21	SEA OF OKHOTSK
#- 707	5/24	7	49	48.0	53.57	153.84	494	4.5	-	147.20	SEA OF OKHOTSK
#- 708	5/24	8	58	34.9	0.63	122.85	93	4.5	-	88.38	MINAHASA, SULAWESI, IND.
#- 709	5/24	10	41	18.2	−26.20	−69.17	10	4.7	-	71.83	ATACAMA, CHILE
#- 710	5/24	11	10	48.4	−24.25	−174.83	10	5.8	-	83.56	SOUTH OF TONGA
#- 711	5/24	17	52	28.9	−12.43	−14.80	9	5.2	-	65.95	SOUTHERN MID-ATLANTIC RIDGE
#- 712	5/25	0	19	35.2	54.63	153.13	605	4.4	-	147.79	SEA OF OKHOTSK
#- 713	5/25	1	4	28.2	−16.76	−69.56	163	5.3	-	80.80	SOUTHERN PERU
#- 714	5/25	1	46	30.5	−18.89	−177.94	527	4.9	-	88.20	FIJI REGION
#- 715	5/25	2	27	19.7	−56.64	147.21	10	5.2	-	44.09	WEST OF MACQUARIE ISLAND
#- 716	5/25	7	19	48.5	0.56	98.56	59	4.8	-	80.07	NIAS REGION, INDONESIA
#- 717	5/25	10	32	55.7	−7.54	127.93	111	5.6	-	82.58	KEPULAUAN BARAT DAYA, INDONESIA
#- 718	5/25	14	52	42.0	−56.58	147.29	10	5.0	-	44.16	WEST OF MACQUARIE ISLAND
#- 719	5/27	5	21	6.7	−36.02	−71.26	101	4.8	-	63.34	MAULE, CHILE
#- 720	5/27	9	1	47.1	−24.55	−70.16	52	4.8	-	73.69	ANTOFAGASTA, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 721	5/27	11	6	11.1	−54.28	−135.36	10	4.7	-	56.64	PACIFIC-ANTARCTIC RIDGE
#- 722	5/27	20	22	0.1	52.24	160.20	13	5.3	-	148.40	OFF THE EAST COAST OF KAMCHATKA, RUSSIA
#- 723	5/28	0	9	54.2	43.22	41.61	10	5.3	-	112.25	GEORGIA (SAK'ART'VELO)
#- 724	5/28	8	45	53.2	−21.37	−177.83	408	5.0	-	85.80	FIJI REGION
#- 725	5/28	8	58	39.1	54.24	153.40	627	4.4	-	147.57	SEA OF OKHOTSK
#- 726	5/28	14	24	55.5	2.61	95.55	25	4.5	-	81.10	SIMEULUE, INDONESIA
#- 727	5/28	16	25	32.2	53.49	159.73	63	5.4	-	149.24	NR E COAST KAMCHATKA, RUSSIA
#- 728	5/28	19	24	22.1	34.18	140.77	14	5.0	-	125.79	NEAR E COAST HONSHU, JAPAN
#- 729	5/29	11	25	33.0	−18.03	167.66	10	4.7	-	85.63	VANUATU
#- 730	5/29	14	47	33.4	−46.92	33.49	10	5.1	-	22.26	PRINCE EDWARD ISLANDS REGION
#- 731	5/30	2	24	16.3	17.76	120.90	13	5.4	-	103.69	LUZON, PHILIPPINES
#- 732	5/30	14	38	24.7	−3.02	128.07	59	4.7	-	86.84	SERAM, INDONESIA
#- 733	5/30	18	36	59.8	−3.95	99.50	20	5.3	-	76.09	SW OF SUMATRA, INDONESIA
#- 734	5/31	2	43	20.3	−20.43	168.85	19	4.8	-	83.64	LOYALTY ISLANDS
#- 735	5/31	13	6	50.1	−20.31	169.02	34	5.1	-	83.80	VANUATU
#- 736	5/31	13	25	55.1	−28.28	−178.60	263	5.2	-	78.91	KERMADEC ISLANDS REGION
#- 737	5/31	14	45	48.7	−21.86	−176.12	115	4.8	-	85.66	FIJI REGION
#- 738	5/31	22	21	55.8	21.64	143.00	321	4.4	-	115.14	MARIANA ISLANDS REGION
#- 739	6/1	1	34	15.0	−23.03	−177.29	184	5.3	-	84.29	SOUTH OF THE FIJI ISLANDS
#- 740	6/1	7	21	33.7	−44.02	−79.08	10	4.7	-	58.16	OFF COAST OF AISEN, CHILE
#- 741	6/1	14	10	7.7	7.22	124.84	16	5.6	-	95.25	MINDANAO, PHILIPPINES
#- 742	6/1	16	25	35.0	−10.81	166.05	56	4.9	-	92.11	SANTA CRUZ ISLANDS
#- 743	6/1	16	50	52.3	−26.18	−69.23	20	4.7	-	71.86	ATACAMA, CHILE
#- 744	6/1	17	32	51.7	−7.04	155.90	76	5.6	-	92.66	SOLOMON ISLANDS
#- 745	6/1	18	40	27.3	−33.47	77.93	14	4.9	-	41.64	MID-INDIAN RIDGE
#- 746	6/2	0	55	21.1	−23.75	−179.73	533	4.8	-	83.10	SOUTH OF THE FIJI ISLANDS
#- 747	6/2	5	43	3.4	23.80	121.12	17	6.1	6.2	109.38	TAIWAN
#- 748	6/2	8	8	33.8	−6.23	147.38	65	5.1	-	90.62	E NEW GUINEA REG, P.N.G.
#- 749	6/2	9	39	29.7	−23.32	−179.84	554	5.1	-	83.49	SOUTH OF THE FIJI ISLANDS
#- 750	6/2	16	39	24.1	−6.37	154.30	50	5.0	-	92.79	BOUGAINVILLE REG, P.N.G.

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 751	6/2	20	8	31.1	7.25	124.93	44	5.6	-	95.31	MINDANAO, PHILIPPINES
#- 752	6/2	23	31	4.9	7.16	124.94	21	4.6	-	95.23	MINDANAO, PHILIPPINES
#- 753	6/3	15	31	2.8	−4.96	102.36	43	5.1	-	76.07	SOUTHERN SUMATRA, INDONESIA
#- 754	6/4	2	23	0.1	45.28	151.05	44	5.1	-	139.29	KURIL ISL
#- 755	6/4	5	1	36.2	−34.72	−71.86	37	4.8	-	64.73	LIBERTADOR O'HIGGINS, CHILE
#- 756	6/4	6	40	26.2	−10.87	113.82	17	4.7	-	74.44	SOUTH OF JAVA, INDONESIA
#- 757	6/4	14	3	10.7	16.98	145.84	16	5.8	5.1	111.83	ANATAHAN REG., NORTHERN MARIANA ISLANDS
#- 758	6/4	16	17	23.6	−24.33	−67.01	167	4.4	-	72.87	SALTA, ARGENTINA
#- 759	6/4	22	55	28.5	−4.56	152.95	67	5.1	-	94.06	NEW BRITAIN REG, P.N.G.
#- 760	6/5	0	43	40.1	37.51	95.79	33	5.4	-	114.38	NORTHERN QINGHAI, CHINA
#- 761	6/5	3	23	31.7	−23.30	−179.69	549	4.9	-	83.54	SOUTH OF THE FIJI ISLANDS
#- 762	6/5	4	40	2.4	−24.26	−176.38	145	4.9	-	83.26	SOUTH OF THE FIJI ISLANDS
#- 763	6/5	4	47	29.3	−11.41	166.27	65	6.1	-	91.60	SANTA CRUZ ISLANDS
#- 764	6/5	9	14	54.7	−8.13	−74.31	155	5.2	-	90.48	CENTRAL PERU
#- 765	6/5	9	45	22.4	−55.45	−26.77	30	4.9	-	31.54	SOUTH SANDWICH ISL REGION
#- 766	6/5	11	55	11.1	−3.28	139.02	57	5.2	-	90.50	PAPUA, INDONESIA
#- 767	6/6	1	45	13.2	−24.29	−67.15	179	4.8	-	72.95	SALTA, ARGENTINA
#- 768	6/6	3	39	8.8	−7.06	129.54	175	4.6	-	83.60	KEPULAUAN BABAR, INDONESIA
#- 769	6/6	6	40	3.2	−32.75	−71.63	30	4.5	-	66.49	OFFSHORE VALPARAISO, CHILE
#- 770	6/6	7	5	41.5	−6.97	128.27	33	5.2	-	83.23	BANDA SEA
#- 771	6/6	8	16	19.4	−6.40	154.65	81	5.0	-	92.86	BOUGAINVILLE REG, P.N.G.
#- 772	6/6	8	21	20.8	−11.47	166.29	75	4.8	-	91.55	SANTA CRUZ ISLANDS
#- 773	6/6	16	46	17.6	−7.06	116.98	497	4.6	-	79.12	BALI SEA
#- 774	6/6	21	20	33.3	−34.10	−73.09	25	4.7	-	65.68	OFFSHORE LIBERTADOR
#- 775	6/7	3	40	26.5	−55.55	−26.70	36	4.7	-	31.43	SOUTH SANDWICH ISL REGION
#- 776	6/7	6	28	15.4	−32.74	−71.72	23	4.5	-	66.53	OFFSHORE VALPARAISO, CHILE
#- 777	6/7	8	46	57.5	−15.75	167.94	201	5.0	-	87.89	VANUATU
#- 778	6/7	9	9	48.1	−22.94	−177.14	179	4.8	-	84.40	SOUTH OF THE FIJI ISLANDS
#- 779	6/7	20	13	12.7	−43.74	−16.16	4	5.8	5.5	37.50	SOUTHERN MID-ATLANTIC RIDGE
#- 780	6/8	0	39	14.8	−36.01	−108.76	10	4.9	-	72.31	SOUTHERN EAST PACIFIC RISE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 781	6/8	2	12	0.2	10.64	126.76	53	5.4	-	99.12	PHILIPPINE ISLANDS REGION
#- 782	6/8	3	18	27.9	−8.01	32.23	10	4.9	-	61.16	LAKE RUKWA REGION, TANZANIA
#- 783	6/8	7	37	7.4	10.66	126.81	50	5.1	-	99.16	PHILIPPINE ISLANDS REGION
#- 784	6/8	11	41	40.5	−43.81	−82.09	10	4.8	-	59.15	WEST CHILE RISE
#- 785	6/8	12	25	5.0	−22.63	−66.61	189	5.5	-	74.33	JUJUY, ARGENTINA
#- 786	6/8	20	33	27.1	10.72	126.93	9	5.2	-	99.26	PHILIPPINE ISLANDS REGION
#- 787	6/9	0	21	34.7	−58.76	−25.46	32	5.5	-	28.56	SOUTH SANDWICH ISLANDS REGION
#- 788	6/9	0	36	27.2	−42.70	41.69	10	5.1	-	26.34	PRINCE EDWARD ISLANDS REGION
#- 789	6/9	14	22	13.1	−25.98	131.99	3	5.6	5.4	66.91	NORTHERN TERRITORY, AUSTRALIA
#- 790	6/9	21	40	26.4	−9.11	158.12	23	4.9	-	91.39	SOLOMON ISLANDS
#- 791	6/10	8	26	0.9	−10.50	165.33	10	4.6	-	92.21	SANTA CRUZ ISLANDS
#- 792	6/10	11	52	10.7	5.30	126.07	86	4.7	-	93.89	MINDANAO, PHILIPPINES
#- 793	6/10	14	21	16.8	−5.55	−81.62	44	4.9	-	95.24	NEAR COAST OF NORTHERN PERU
#- 794	6/10	22	29	10.8	−20.11	−173.84	86	4.6	-	87.80	TONGA
#- 795	6/11	2	30	36.5	−1.81	100.16	35	4.9	-	78.34	S SUMATRA, IND
#- 796	6/11	9	37	5.2	−21.81	−68.24	104	5.1	-	75.62	ANTOFAGASTA, CHILE
#- 797	6/11	11	30	25.5	3.67	126.89	66	4.8	-	92.67	KEPULAUAN TALAUD, INDONESIA
#- 798	6/11	11	59	35.0	−6.77	129.12	216	4.9	-	83.72	BANDA SEA
#- 799	6/11	19	12	55.6	−18.01	168.35	75	5.3	-	85.83	VANUATU
#- 800	6/12	11	58	36.9	−2.47	−12.33	10	5.2	-	74.70	NORTH OF ASCENSION ISLAND
#- 801	6/12	14	25	5.3	−1.61	100.57	84	4.8	-	78.65	SOUTHERN SUMATRA, INDONESIA
#- 802	6/13	10	41	37.2	−32.26	−70.58	80	4.8	-	66.62	VALPARAISO, CHILE
#- 803	6/13	13	24	45.4	26.55	128.85	20	5.8	-	114.60	RYUKYU ISLANDS, JAPAN
#- 804	6/13	16	47	23.9	−10.01	107.22	13	6.5	6.4	72.95	SOUTH OF JAVA, INDONESIA
#- 805	6/13	17	23	53.2	−9.98	107.32	17	5.4	-	73.01	SOUTH OF JAVA, INDONESIA
#- 806	6/13	21	27	9.8	−56.25	−27.14	128	4.6	-	31.04	SOUTH SANDWICH ISL REGION
#- 807	6/13	22	19	32.5	−19.82	−173.76	9	5.0	-	88.09	TONGA
#- 808	6/14	1	4	55.3	−8.19	119.58	170	4.5	-	78.99	FLORES REGION, INDONESIA
#- 809	6/15	11	48	17.8	−20.27	−177.86	482	4.5	-	86.87	FIJI REGION
#- 810	6/15	17	34	29.5	11.77	−86.94	45	6.1	6.3	113.35	NEAR THE COAST OF NICARAGUA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-811	6/16	5	19	0.6	18.27	−99.10	52	5.9	5.3	123.08	GUERRERO, MEXICO
#-812	6/16	6	26	12.6	−19.34	167.80	27	4.9	-	84.41	VANUATU REGION
#-813	6/16	8	0	5.4	−6.82	104.34	35	4.8	-	74.97	SUNDA STRAIT, INDONESIA
#-814	6/16	8	4	24.2	−3.15	128.98	35	4.9	-	87.05	SERAM, INDONESIA
#-815	6/16	13	31	35.2	−58.36	158.10	10	5.3	5.4	45.29	MACQUARIE ISLAND REGION
#-816	6/16	14	20	2.0	−58.29	158.28	10	5.0	-	45.40	MACQUARIE ISLAND REGION
#-817	6/16	16	26	12.8	−15.80	−72.11	10	4.8	-	82.53	SOUTHERN PERU
#-818	6/17	11	21	42.5	−36.57	52.43	10	4.9	-	33.27	SOUTHWEST INDIAN RIDGE
#-819	6/17	15	12	58.0	11.86	−86.97	75	5.0	-	113.45	NEAR THE COAST OF NICARAGUA
#-820	6/17	19	17	58.6	−7.78	115.83	258	5.0	-	78.03	BALI SEA
#-821	6/18	1	3	59.7	−39.57	−16.02	14	4.9	-	41.15	SOUTHERN MID-ATLANTIC RIDGE
#-822	6/18	12	27	13.7	−23.47	−179.81	588	4.8	-	83.35	SOUTH OF THE FIJI ISLANDS
#-823	6/18	14	10	37.7	−19.99	−69.05	110	4.5	-	77.60	TARAPACA, CHILE
#-824	6/19	4	40	57.3	−29.63	−178.08	72	4.4	-	77.69	KERMADEC ISL, NEW ZEALAND
#-825	6/19	5	6	11.9	−24.60	179.70	537	4.5	-	82.15	SOUTH OF THE FIJI ISLANDS
#-826	6/19	6	52	38.7	−3.77	151.36	10	5.3	-	94.28	NEW IRELAND REG, P.N.G.
#-827	6/19	9	39	34.3	−20.89	−174.51	35	5.0	-	86.91	TONGA
#-828	6/19	12	40	56.0	−8.85	125.26	28	4.7	-	80.39	EAST TIMOR REGION
#-829	6/19	15	42	55.1	−52.13	161.31	10	4.7	-	51.72	MACQUARIE ISLAND REGION
#-830	6/19	21	29	11.7	−32.62	−70.00	100	5.7	-	66.10	MENDOZA, ARGENTINA
#-831	6/20	1	49	44.3	40.82	142.42	51	5.0	-	132.31	NR E CST HONSHU, JAPAN
#-832	6/20	12	15	45.3	−21.21	−68.44	136	4.3	-	76.25	ANTOFAGASTA, CHILE
#-833	6/21	14	8	46.4	−15.46	−173.11	25	4.9	-	92.49	TONGA
#-834	6/22	5	42	35.8	−8.32	116.03	10	5.2	-	77.61	LOMBOK REGION, INDONESIA
#-835	6/22	21	38	24.2	−17.50	−178.85	535	4.6	-	89.37	FIJI REGION
#-836	6/23	15	19	25.6	−5.00	151.30	138	5.0	-	93.10	NEW BRITAIN REG, P.N.G.
#-837	6/23	20	0	36.1	10.10	−85.53	18	5.2	-	111.33	COSTA RICA
#-838	6/24	4	13	37.7	52.23	151.40	633	4.3	-	145.24	SEA OF OKHOTSK
#-839	6/24	4	52	21.9	−19.51	−71.22	27	4.5	-	78.75	OFF CST TARAPACA, CHILE
#-840	6/24	8	12	42.8	−6.57	148.66	10	4.7	-	90.73	NEW BRITAIN REGION, PAPUA NEW GUINEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 841	6/25	6	40	27.7	−3.90	142.06	57	4.8	-	90.99	NR N CST NEW GUINEA, P.N.G.
#- 842	6/25	9	52	54.0	−19.97	179.57	476	4.6	-	86.63	SOUTH OF THE FIJI ISLANDS
#- 843	6/26	5	48	47.6	9.37	91.31	32	5.3	-	86.32	NICOBAR ISL, INDIA REGION
#- 844	6/26	15	41	9.5	−17.58	−178.52	547	4.3	-	89.36	FIJI REGION
#- 845	6/26	22	59	2.3	−0.16	125.05	43	5.9	4.9	88.44	MOLUCCA SEA
#- 846	6/27	23	22	50.8	−26.17	−69.02	10	4.7	-	71.81	ATACAMA, CHILE
#- 847	6/28	2	8	14.5	−29.80	−71.67	9	4.6	-	69.26	OFFSHORE COQUIMBO, CHILE
#- 848	6/28	7	45	23.0	−22.80	171.32	35	4.9	-	81.99	SOUTHEAST OF LOYALTY ISLANDS
#- 849	6/28	15	35	54.6	10.62	93.46	101	4.8	-	88.12	ANDAMAN ISL, INDIA REGION
#- 850	6/29	2	16	56.7	−50.26	110.79	10	5.1	-	37.86	SOUTHEAST INDIAN RIDGE
#- 851	6/29	6	34	40.6	−5.36	151.53	97	5.0	-	92.83	NEW BRITAIN REG, P.N.G.
#- 852	6/29	12	29	43.8	−20.10	169.53	112	4.9	-	84.13	VANUATU
#- 853	6/29	16	50	51.5	−39.24	−74.93	17	4.5	-	61.45	OFF COAST LOS LAGOS, CHILE
#- 854	6/29	19	5	14.0	−15.64	−69.41	263	5.0	-	81.80	LA PAZ, BOLIVIA
#- 855	6/30	4	59	31.6	39.31	73.50	10	5.0	-	111.28	TAJIKISTAN
#- 856	6/30	9	53	12.7	−4.61	153.65	86	4.9	-	94.23	NEW IRELAND REG, P.N.G.
#- 857	6/30	16	39	14.3	−14.61	−75.34	53	4.9	-	84.69	NEAR COAST OF CENTRAL PERU
#- 858	7/1	8	47	14.6	−55.56	−28.47	10	5.1	-	32.05	SOUTH SANDWICH ISL REGION
#- 859	7/2	9	38	41.5	−15.80	−173.80	43	5.6	-	92.04	TONGA
#- 860	7/2	11	18	32.7	27.31	54.97	10	5.0	-	97.03	SOUTHERN IRAN
#- 861	7/2	12	5	14.7	−4.84	152.27	39	4.9	-	93.56	NEW BRITAIN REG, P.N.G.
#- 862	7/2	13	33	17.3	1.60	30.91	10	5.2	-	70.83	LAKE ALBERT REGION, UGANDA
#- 863	7/2	13	55	41.5	4.69	96.72	38	5.3	-	83.43	NORTHERN SUMATRA, INDONESIA
#- 864	7/2	14	8	51.3	27.29	54.90	10	4.5	-	97.00	SOUTHERN IRAN
#- 865	7/2	15	36	47.3	4.67	96.76	38	5.2	-	83.42	NORTHERN SUMATRA, INDONESIA
#- 866	7/2	18	39	43.7	−35.91	−102.92	10	5.2	-	71.39	SOUTHEAST OF EASTER ISLAND
#- 867	7/3	7	4	17.5	36.50	70.43	204	5.2	-	108.04	HINDU KUSH REG, AFGHANISTAN
#- 868	7/3	10	40	36.0	−19.27	−70.70	37	4.9	-	78.80	OFFSHORE TARAPACA, CHILE
#- 869	7/3	11	13	40.0	−17.73	−177.85	474	4.6	-	89.35	FIJI REGION
#- 870	7/3	15	6	12.0	37.36	141.39	20	5.0	-	128.87	NEAR E COAST HONSHU, JAPAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 871	7/3	15	9	3.0	−30.55	−178.16	62	5.3	-	76.78	KERMADEC ISL, NEW ZEALAND
#- 872	7/3	19	41	5.5	−44.51	167.87	2	4.9	-	60.38	SOUTH ISLAND OF NEW ZEALAND
#- 873	7/3	20	13	34.4	−32.30	−179.99	226	5.2	-	74.71	SOUTH OF KERMADEC ISLANDS
#- 874	7/3	20	16	39.2	−58.40	−26.37	141	5.3	-	29.14	SOUTH SANDWICH ISL REGION
#- 875	7/3	22	22	18.5	1.55	30.80	10	5.4	-	70.78	LAKE ALBERT REGION, UGANDA
#- 876	7/4	4	17	46.0	−23.80	179.99	541	4.7	-	82.99	SOUTH OF THE FIJI ISLANDS
#- 877	7/4	11	15	40.6	−17.88	−178.55	595	4.9	-	89.06	FIJI REGION
#- 878	7/5	0	41	28.2	−22.50	−68.40	112	4.9	-	75.03	ANTOFAGASTA, CHILE
#- 879	7/5	9	40	16.2	−7.98	107.87	70	4.8	-	75.07	JAVA, INDONESIA
#- 880	7/5	13	51	59.5	15.14	52.05	10	4.5	-	84.66	NEAR THE COAST OF YEMEN
#- 881	7/6	2	2	55.3	−14.74	−71.65	10	4.5	-	83.37	CENTRAL PERU
#- 882	7/6	5	5	6.6	−3.27	100.56	21	5.9	6.3	77.08	KEPULAUAN MENTAWAI REGION, INDONESIA
#- 883	7/6	7	5	40.6	−23.51	−66.43	203	5.2	-	73.44	JUJUY, ARG
#- 884	7/6	19	40	28.7	−18.91	−69.31	102	4.9	-	78.69	TARAPACA, CHILE
#- 885	7/6	20	37	44.4	−29.73	−111.75	10	4.9	-	78.96	EASTER ISLAND REGION
#- 886	7/7	6	17	55.7	−24.50	−67.65	185	4.2	-	72.92	SALTA, ARGENTINA
#- 887	7/8	2	13	40.6	−8.76	113.01	60	5.5	-	76.13	JAVA, INDONESIA
#- 888	7/8	4	16	9.2	−55.94	−27.24	55	4.7	-	31.32	SOUTH SANDWICH ISL REGION
#- 889	7/8	15	30	27.7	16.67	40.80	9	5.3	-	85.69	RED SEA
#- 890	7/9	13	49	17.7	32.78	78.21	39	5.0	-	105.79	KASHMIR-XIZANG BORDER REGION
#- 891	7/9	15	44	10.8	−13.12	169.54	601	4.9	-	90.85	VANUATU REGION
#- 892	7/9	16	15	39.6	−2.94	129.76	25	5.0	-	87.52	SERAM, INDONESIA
#- 893	7/9	17	4	15.3	−3.32	100.45	16	5.6	5.4	77.00	KEPULAUAN MENTAWAI REGION, INDONESIA
#- 894	7/9	17	22	58.6	−3.47	100.28	17	4.8	-	76.80	KEPULAUAN MENTAWAI REG, IND.
#- 895	7/9	18	3	5.8	−29.68	−111.72	11	5.3	-	79.00	EASTER ISLAND REGION
#- 896	7/9	18	22	35.3	−31.76	−178.72	77	5.0	-	75.49	KERMADEC ISLANDS REGION
#- 897	7/9	18	48	38.7	−29.51	−111.74	13	5.2	-	79.17	EASTER ISLAND REGION
#- 898	7/9	19	56	38.9	−3.55	131.37	37	4.6	-	87.53	CERAM SEA, INDONESIA
#- 899	7/9	20	51	47.0	−19.05	−69.07	110	5.3	-	78.48	TARAPACA, CHILE
#- 900	7/9	23	24	48.0	−27.18	−176.40	64	4.8	-	80.40	KERMADEC ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-901	7/9	23	58	16.7	−54.27	7.28	10	4.8	-	20.64	BOUVET ISLAND REGION
#-902	7/10	2	52	47.5	−15.89	−173.77	53	4.5	-	91.95	TONGA
#-903	7/10	5	22	15.1	39.68	141.65	79	5.3	-	131.03	EASTERN HONSHU, JAPAN
#-904	7/10	9	29	11.7	−29.04	−175.73	10	5.3	-	78.70	KERMADEC ISLANDS REGION
#-905	7/10	14	25	39.8	−30.12	−177.47	10	5.3	-	77.33	KERMADEC ISL, NEW ZEALAND
#-906	7/10	14	32	13.3	−19.21	−69.13	112	5.7	-	78.35	TARAPACA, CHILE
#-907	7/10	14	44	1.8	−30.22	−177.56	10	5.5	5.4	77.22	KERMADEC ISLANDS, NEW ZEALAND
#-908	7/11	2	5	24.5	12.73	48.17	10	4.9	-	82.00	GULF OF ADEN
#-909	7/11	9	46	11.9	12.69	48.06	16	5.0	-	81.95	GULF OF ADEN
#-910	7/11	13	38	31.8	−23.87	−66.86	210	4.4	-	73.25	JUJUY, ARGENTINA
#-911	7/11	14	48	39.9	−35.59	−104.26	10	4.7	-	71.94	SOUTHEAST OF EASTER ISLAND
#-912	7/12	2	53	31.3	−28.70	−177.74	157	4.3	-	78.66	KERMADEC ISLANDS REGION
#-913	7/12	7	24	10.3	−4.93	149.10	35	4.7	-	92.43	BISMARCK SEA
#-914	7/12	8	41	51.8	−12.68	167.02	236	4.9	-	90.59	SANTA CRUZ ISLANDS
#-915	7/12	19	27	37.0	−12.50	−76.90	49	4.7	-	87.18	NEAR THE COAST OF CENTRAL PERU
#-916	7/12	19	59	49.0	62.08	−124.23	8	5.0	-	170.26	NORTHWEST TERRITORIES, CANADA
#-917	7/12	20	32	35.5	−16.76	−71.07	102	5.0	-	81.29	SOUTHERN PERU
#-918	7/13	0	3	55.3	−21.37	−178.95	499	4.5	-	85.57	FIJI REGION
#-919	7/13	11	38	12.1	−4.16	128.83	40	4.7	-	86.06	BANDA SEA
#-920	7/13	12	39	27.8	−27.66	−67.49	120	4.4	-	69.92	CATAMARCA, ARGENTINA
#-921	7/13	21	36	12.1	−26.97	−66.83	10	5.0	-	70.35	CATAMARCA, ARGENTINA
#-922	7/14	0	54	46.1	−5.50	134.01	29	4.9	-	86.65	KEPULAUAN ARU REGION, INDONESIA
#-923	7/15	6	27	47.4	12.34	−89.42	43	5.1	-	114.65	OFF THE COAST OF EL SALVADOR
#-924	7/15	7	49	3.7	−8.86	67.62	10	5.0	-	62.97	MID-INDIAN RIDGE
#-925	7/15	14	43	4.9	51.91	157.31	115	5.3	-	147.10	NR E COAST KAMCHATKA, RUSSIA
#-926	7/15	22	35	47.2	−9.90	−74.54	145	5.4	-	88.88	CENTRAL PERU
#-927	7/16	8	36	30.4	−30.85	−178.40	41	4.5	-	76.44	KERMADEC ISL, NEW ZEALAND
#-928	7/16	13	31	41.1	−29.30	−69.41	86	4.2	-	69.01	SAN JUAN, ARGENTINA
#-929	7/16	14	9	27.5	43.02	145.40	47	5.2	-	135.31	HOKKAIDO, JAPAN REGION
#-930	7/16	19	41	54.0	−63.34	−62.51	12	5.7	5.2	36.65	SOUTH SHETLAND ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-931	7/16	23	5	11.7	−59.63	−25.51	30	5.1	-	27.94	SOUTH SANDWICH ISL REGION
#-932	7/16	23	41	14.7	5.39	98.03	29	5.3	-	84.50	STRAIT OF MALACCA
#-933	7/17	15	27	2.9	2.94	128.58	32	4.8	-	92.59	HALMAHERA, INDONESIA
#-934	7/17	19	46	12.2	−6.35	130.01	170	5.0	-	84.43	BANDA SEA
#-935	7/18	9	59	33.9	−17.47	167.83	19	5.1	-	86.21	VANUATU
#-936	7/18	15	43	11.0	−8.32	117.16	34	5.0	-	78.01	SUMBAWA REGION, INDONESIA
#-937	7/18	21	6	39.1	−41.56	174.36	17	5.3	-	64.61	COOK STRAIT, NEW ZEALAND
#-938	7/18	23	44	13.2	39.04	142.07	48	5.0	-	130.61	NEAR E COAST HONSHU, JAPAN
#-939	7/19	2	20	41.2	−16.77	167.66	25	5.4	-	86.84	VANUATU
#-940	7/19	3	21	13.6	−41.55	174.32	15	4.5	-	64.62	COOK STRAIT, NEW ZEALAND
#-941	7/19	5	20	10.4	−10.82	165.82	10	5.1	-	92.04	SANTA CRUZ ISLANDS
#-942	7/19	7	28	51.5	−3.51	139.37	56	4.8	-	90.41	PAPUA, INDONESIA
#-943	7/19	16	39	19.6	37.52	141.39	39	5.2	-	129.02	NEAR THE EAST COAST OF HONSHU, JAPAN
#-944	7/19	19	39	13.2	−48.89	164.81	42	4.4	-	55.55	OFF W COAST OF S ISL, N.Z.
#-945	7/20	6	6	23.3	36.25	141.79	22	5.5	-	128.02	NEAR THE EAST COAST OF HONSHU, JAPAN
#-946	7/20	12	1	20.9	−2.24	138.51	35	5.2	-	91.29	PAPUA, INDONESIA
#-947	7/20	19	17	10.3	−41.62	174.36	12	5.8	-	64.56	COOK STRAIT, NEW ZEALAND
#-948	7/20	22	55	16.0	−41.56	174.39	18	4.8	-	64.62	COOK STRAIT, NEW ZEALAND
#-949	7/21	9	51	11.3	−5.52	145.91	54	5.2	-	90.79	E NEW GUINEA REG, P.N.G.
#-950	7/21	12	39	7.9	−41.68	174.36	12	4.7	-	64.50	COOK STRAIT, NEW ZEALAND
#-951	7/21	13	0	22.7	−3.49	135.39	30	5.4	-	89.02	PAPUA, INDONESIA
#-952	7/21	14	51	22.1	−20.42	−68.88	95	4.5	-	77.13	TARAPACA, CHILE
#-953	7/21	15	15	11.0	−41.46	174.30	10	4.9	-	64.70	COOK STRAIT, NEW ZEALAND
#-954	7/21	15	22	13.0	−41.46	174.29	10	4.5	-	64.70	COOK STRAIT, NEW ZEALAND
#-955	7/21	16	46	33.1	−23.77	−179.96	543	4.7	-	83.03	SOUTH OF THE FIJI ISLANDS
#-956	7/21	20	20	7.0	−23.80	−68.21	164	4.4	-	73.76	ANTOFAGASTA, CHILE
#-957	7/21	22	47	23.2	−41.74	174.38	4	4.6	-	64.45	COOK STRAIT, NEW ZEALAND
#-958	7/22	0	5	5.8	−61.61	−58.30	16	5.2	-	36.90	SOUTH SHETLAND ISLANDS
#-959	7/22	1	12	35.1	34.52	104.16	10	5.6	-	113.90	GANSU, CHINA
#-960	7/22	7	1	42.9	−46.03	34.85	10	5.8	6.0	23.08	PRINCE EDWARD ISLANDS REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#-961	7/22	12	32	57.6	−35.28	54.08	10	5.0	-	34.76	SOUTH INDIAN OCEAN
#-962	7/22	13	54	44.9	−26.74	−69.48	4	4.9	-	71.42	ATACAMA, CHILE
#-963	7/22	22	15	11.3	−1.29	−15.99	10	5.2	-	76.91	NORTH OF ASCENSION ISLAND
#-964	7/22	22	19	6.6	−1.29	−15.97	10	5.2	-	76.91	NORTH OF ASCENSION ISLAND
#-965	7/22	22	51	5.1	−1.30	−15.83	10	5.1	-	76.85	NORTH OF ASCENSION ISLAND
#-966	7/22	23	7	44.1	2.55	128.58	221	4.6	-	92.23	HALMAHERA, IND.
#-967	7/23	2	19	49.6	2.72	125.44	148	4.8	-	91.27	KEPULAUAN SANGIHE, INDONESIA
#-968	7/23	3	2	11.7	37.14	140.63	6	5.3	-	128.40	EASTERN HONSHU, JAPAN
#-969	7/23	3	21	1.5	−24.44	179.89	530	4.5	-	82.34	SOUTH OF THE FIJI ISLANDS
#-970	7/23	8	12	37.9	−17.70	−178.74	556	4.6	-	89.20	FIJI REGION
#-971	7/23	17	27	15.4	−20.13	−70.55	15	4.7	-	77.95	OFFSHORE TARAPACA, CHILE
#-972	7/23	19	35	22.7	−7.87	129.59	31	4.7	-	82.86	KEPULAUAN BABAR, INDONESIA
#-973	7/24	0	30	41.4	−17.38	167.54	35	4.9	-	86.23	VANUATU
#-974	7/24	13	29	54.7	−20.20	−70.70	27	4.8	-	77.94	OFFSHORE TARAPACA, CHILE
#-975	7/24	13	59	24.0	51.36	−179.04	55	5.3	-	154.87	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#-976	7/24	16	22	6.8	−22.80	−179.45	551	4.2	-	84.08	SOUTH OF THE FIJI ISLANDS
#-977	7/24	16	54	17.1	−18.84	−178.04	447	4.3	-	88.23	FIJI REGION
#-978	7/25	2	7	23.3	−15.91	−72.17	23	4.7	-	82.45	S PERU
#-979	7/25	13	25	35.8	−28.37	−177.94	93	4.9	-	78.95	KERMADEC ISLANDS REGION
#-980	7/26	8	31	36.6	52.07	160.34	37	5.1	-	148.31	OFF E CST KAMCHATKA, RUSSIA
#-981	7/26	12	57	25.5	50.40	−129.99	10	5.0	-	160.65	WEST OF VANCOUVER ISLAND
#-982	7/26	14	36	20.9	−0.43	99.19	59	4.9	-	79.33	SOUTHERN SUMATRA, INDONESIA
#-983	7/26	19	8	31.5	−23.12	179.15	568	5.1	-	83.47	SOUTH OF THE FIJI ISLANDS
#-984	7/27	6	46	46.4	−2.98	128.15	67	4.6	-	86.91	CERAM SEA, INDONESIA
#-985	7/27	16	3	10.9	−15.48	−173.03	33	4.8	-	92.49	TONGA
#-986	7/27	17	55	10.5	7.35	126.87	77	4.9	-	96.10	MINDANAO, PHILIPPINES
#-987	7/27	22	18	31.5	−6.79	131.82	35	5.0	-	84.67	KEPULAUAN TANIMBAR REGION, INDONESIA
#-988	7/28	7	21	4.8	52.27	159.67	34	5.0	-	148.23	OFF E CST KAMCHATKA, RUSSIA
#-989	7/28	11	8	17.1	−28.08	−177.94	203	4.6	-	79.23	KERMADEC ISLANDS REGION
#-990	7/28	13	7	14.4	−41.64	174.25	15	4.9	-	64.51	COOK STRAIT, NEW ZEALAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 991	7/28	16	57	34.6	−5.66	−80.65	50	4.6	-	94.84	NEAR COAST OF NORTHERN PERU
#- 992	7/28	20	16	29.8	−20.85	174.30	68	5.2	-	84.58	VANUATU REGION
#- 993	7/28	23	14	19.8	−17.83	−178.61	587	4.3	-	89.10	FIJI REGION
#- 994	7/29	8	12	27.7	−16.99	−177.09	10	5.1	-	90.23	FIJI REGION
#- 995	7/29	14	53	30.2	24.48	62.54	10	4.5	-	95.05	OFF THE COAST OF PAKISTAN
#- 996	7/29	18	27	41.8	−37.30	177.25	161	4.9	-	69.32	OFF E COAST OF N ISL, N.Z.
#- 997	7/29	21	52	12.3	−57.78	−25.33	54	5.2	-	29.24	SOUTH SANDWICH ISL REGION
#- 998	7/30	3	0	29.3	−21.68	−177.31	363	4.7	-	85.60	FIJI REGION
#- 999	7/30	4	59	10.7	−5.36	151.96	55	4.8	-	92.97	NEW BRITAIN REG, P.N.G.
#- 1000	7/30	12	48	47.9	−35.53	−103.97	10	4.6	-	71.95	SOUTHEAST OF EASTER ISLAND
#- 1001	7/31	0	36	51.3	1.39	126.25	9	5.0	-	90.31	MOLUCCA SEA
#- 1002	7/31	10	28	8.0	−5.16	−80.74	56	4.5	-	95.34	NEAR THE COAST OF NORTHERN PERU
#- 1003	7/31	14	1	9.7	−24.21	−111.78	10	5.2	-	84.40	EASTER ISLAND REGION
#- 1004	7/31	16	23	19.0	−6.00	147.49	72	4.6	-	90.87	E NEW GUINEA REG, P.N.G.
#- 1005	7/31	19	44	33.6	51.06	178.26	26	5.2	-	153.73	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 1006	7/31	23	10	11.0	−41.58	174.39	21	4.7	-	64.60	COOK STRAIT, NEW ZEALAND
#- 1007	8/1	7	25	37.4	−6.98	123.79	616	4.7	-	81.62	BANDA SEA
#- 1008	8/2	6	13	11.4	−29.43	−71.85	13	4.5	-	69.65	OFFSHORE COQUIMBO, CHILE
#- 1009	8/3	18	39	37.9	−9.69	−74.38	91	4.5	-	89.03	CENTRAL PERU
#- 1010	8/4	1	28	26.5	−48.97	−8.69	10	5.4	-	30.40	SOUTHERN MID-ATLANTIC RIDGE
#- 1011	8/4	3	28	50.0	38.20	141.90	46	5.8	-	129.80	NEAR THE EAST COAST OF HONSHU, JAPAN
#- 1012	8/4	15	56	34.5	46.99	145.22	371	5.4	-	138.67	SEA OF OKHOTSK
#- 1013	8/5	5	40	56.3	−20.17	−70.72	18	5.4	-	77.97	OFFSHORE TARAPACA, CHILE
#- 1014	8/6	9	7	26.9	−28.94	−68.47	84	4.6	-	69.05	LA RIOJA, ARGENTINA
#- 1015	8/6	13	1	4.5	−22.50	173.87	10	5.0	-	82.88	SOUTHEAST OF LOYALTY ISLANDS
#- 1016	8/6	13	6	38.8	−5.41	152.00	35	4.6	-	92.94	NEW BRITAIN REG, P.N.G.
#- 1017	8/6	16	46	18.4	−16.80	167.29	10	5.5	5.5	86.71	VANUATU
#- 1018	8/6	17	4	24.1	−4.08	137.43	43	4.5	-	89.19	PAPUA, INDONESIA
#- 1019	8/6	17	21	57.4	−16.90	167.36	25	5.5	-	86.63	VANUATU
#- 1020	8/7	9	5	21.8	−16.90	167.42	10	4.2	-	86.65	VANUATU

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1021	8/7	9	40	47.2	−41.07	−90.51	10	4.7	-	63.80	SOUTHEAST OF EASTER ISLAND
#- 1022	8/7	14	37	25.6	−20.94	169.73	75	4.9	-	83.37	VANUATU
#- 1023	8/8	2	3	8.7	6.72	126.68	179	5.1	-	95.44	MINDANAO, PHILIPPINES
#- 1024	8/8	4	57	57.2	−20.27	−176.51	241	5.0	-	87.14	FIJI REGION
#- 1025	8/8	10	45	57.9	−8.83	110.91	10	5.3	-	75.33	JAVA, INDONESIA
#- 1026	8/8	16	1	34.9	−0.35	123.65	79	4.8	-	87.76	SULAWESI, INDONESIA
#- 1027	8/9	1	19	44.5	4.54	125.69	182	4.6	-	93.05	KEPULAUAN SANGIHE, INDONESIA
#- 1028	8/9	21	46	48.9	49.96	−179.02	11	5.0	-	153.68	SOUTH OF ALEUTIAN ISLANDS
#- 1029	8/10	7	20	4.4	−6.79	130.06	109	5.0	-	84.04	BANDA SEA
#- 1030	8/10	22	39	43.3	−15.34	167.88	115	4.8	-	88.27	VANUATU
#- 1031	8/11	10	33	55.5	−29.11	−178.44	184	5.0	-	78.13	KERMADEC ISL, NEW ZEALAND
#- 1032	8/11	15	28	42.0	−23.06	−68.97	109	4.6	-	74.70	ANTOFAGASTA, CHILE
#- 1033	8/11	21	23	41.1	30.06	97.95	4	5.8	-	107.92	E XIZANG
#- 1034	8/11	22	33	29.9	−11.14	165.12	27	4.7	-	91.53	SANTA CRUZ ISLANDS
#- 1035	8/11	23	48	25.3	30.02	97.92	59	5.0	-	107.87	EASTERN XIZANG
#- 1036	8/11	23	58	52.5	30.03	97.88	59	5.2	-	107.87	EASTERN XIZANG
#- 1037	8/12	18	3	33.3	−56.51	−142.31	10	5.1	5.3	54.47	PACIFIC-ANTARCTIC RIDGE
#- 1038	8/13	0	9	44.7	43.75	143.53	176	5.1	-	135.27	HOKKAIDO, JAPAN REGION
#- 1039	8/13	9	53	30.3	−28.01	−68.82	93	4.4	-	70.03	LA RIOJA, ARGENTINA
#- 1040	8/13	15	43	14.8	5.73	−78.16	12	6.2	6.4	104.83	SOUTH OF PANAMA
#- 1041	8/13	17	23	53.0	−15.28	−70.61	191	4.5	-	82.53	SOUTHERN PERU
#- 1042	8/14	7	59	24.6	−16.46	−173.63	62	5.0	-	91.42	TONGA
#- 1043	8/14	11	51	7.5	5.89	127.49	60	4.6	-	94.95	PHILIPPINE ISLANDS REGION
#- 1044	8/14	14	34	22.6	2.46	128.88	49	4.6	-	92.25	HALMAHERA, INDONESIA
#- 1045	8/14	19	18	41.8	51.21	178.49	30	5.0	-	153.94	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 1046	8/14	21	21	42.4	−22.72	−175.08	15	4.8	-	85.02	TONGA REGION
#- 1047	8/15	4	5	55.2	0.07	123.22	148	5.2	-	87.99	MINAHASA, SULAWESI, INDONESIA
#- 1048	8/15	10	26	45.3	−32.52	−71.67	25	5.0	-	66.71	OFFSHORE VALPARAISO, CHILE
#- 1049	8/15	15	26	16.8	−5.54	151.68	62	5.1	-	92.71	NEW BRITAIN REG, P.N.G.
#- 1050	8/15	16	51	35.7	11.04	95.05	23	4.7	-	88.99	ANDAMAN ISL, INDIA REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1051	8/15	18	54	49.8	−1.27	121.33	50	5.0	-	86.07	SULAWESI, INDONESIA
#- 1052	8/16	2	37	28.5	−41.72	174.09	2	5.4	-	64.41	COOK STRAIT, NEW ZEALAND
#- 1053	8/16	2	51	53.2	−41.81	173.96	14	4.6	-	64.29	SOUTH ISLAND OF NEW ZEALAND
#- 1054	8/16	2	56	26.7	−41.70	174.28	13	4.8	-	64.46	COOK STRAIT, NEW ZEALAND
#- 1055	8/16	5	17	41.3	−15.17	−173.40	23	4.9	-	92.73	TONGA
#- 1056	8/16	5	26	40.1	−41.68	174.09	18	4.6	-	64.45	COOK STRAIT, NEW ZEALAND
#- 1057	8/16	5	57	52.6	−41.71	174.28	17	4.8	-	64.46	COOK STRAIT, NEW ZEALAND
#- 1058	8/16	5	58	27.9	−41.67	174.17	14	5.0	-	64.47	COOK STRAIT, NEW ZEALAND, Mb=4.8
#- 1059	8/16	6	42	40.7	−41.69	174.29	20	4.6	-	64.48	COOK STRAIT, NEW ZEALAND
#- 1060	8/16	6	55	59.3	−41.69	174.28	11	4.9	-	64.47	COOK STRAIT, NEW ZEALAND
#- 1061	8/16	11	52	17.9	−7.65	117.18	298	5.0	-	78.64	BALI SEA
#- 1062	8/16	15	44	49.1	−0.89	121.57	11	4.9	-	86.51	SULAWESI, INDONESIA
#- 1063	8/16	22	17	31.6	−28.61	−71.17	42	5.4	-	70.21	ATACAMA, CHILE
#- 1064	8/17	0	4	25.7	−20.89	−173.85	58	5.0	-	87.03	TONGA
#- 1065	8/17	0	20	2.4	−24.10	179.93	551	4.4	-	82.68	SOUTH OF THE FIJI ISLANDS
#- 1066	8/17	4	13	20.0	−41.86	174.05	10	4.7	-	64.26	COOK STRAIT, NEW ZEALAND
#- 1067	8/17	4	24	7.8	5.28	94.37	56	5.2	-	83.29	NORTHERN SUMATRA, INDONESIA
#- 1068	8/17	5	25	43.2	51.07	178.47	41	5.0	-	153.81	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 1069	8/17	7	53	3.7	−1.98	139.05	39	5.3	-	91.73	NEAR THE NORTH COAST OF PAPUA, INDONESIA
#- 1070	8/17	8	58	40.9	−41.78	174.08	19	5.1	-	64.35	COOK STRAIT, NEW ZEALAND
#- 1071	8/17	11	11	56.5	50.97	178.42	27	5.0	-	153.71	RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 1072	8/17	13	4	26.3	−25.32	−179.94	464	4.8	-	81.52	SOUTH OF THE FIJI ISLANDS
#- 1073	8/17	14	41	22.1	11.32	93.51	92	4.6	-	88.81	ANDAMAN ISL, INDIA REGION
#- 1074	8/17	16	7	52.8	−41.70	174.10	19	4.4	-	64.43	COOK STRAIT, NEW ZEALAND
#- 1075	8/17	18	11	14.0	−21.20	−68.75	126	4.5	-	76.36	ANTOFAGASTA, CHILE
#- 1076	8/17	20	3	13.2	−22.98	−66.23	242	4.7	-	73.87	JUJUY, ARGENTINA
#- 1077	8/17	21	8	8.7	2.82	128.47	225	5.2	-	92.44	HALMAHERA, INDONESIA
#- 1078	8/18	12	31	56.3	6.45	−33.71	10	4.6	-	89.95	CENTRAL MID-ATLANTIC RIDGE
#- 1079	8/18	13	23	28.9	−18.52	−177.95	563	4.8	-	88.56	FIJI REGION
#- 1080	8/18	14	49	43.3	−20.70	−178.75	573	4.4	-	86.27	FIJI REGION

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1081	8/18	14	54	18.2	−0.82	122.74	22	4.8	-	86.99	SULAWESI, INDONESIA
#- 1082	8/18	15	58	54.3	−17.77	−178.68	535	4.1	-	89.14	FIJI REGION
#- 1083	8/18	21	27	1.8	−30.39	−177.98	65	5.2	-	76.97	KERMADEC ISL, NEW ZEALAND
#- 1084	8/18	22	34	29.9	6.40	124.71	381	5.3	-	94.44	MINDANAO, PHILIPPINES
#- 1085	8/19	19	39	45.3	−21.46	−68.46	113	5.6	-	76.02	ANTOFAGASTA, CHILE
#- 1086	8/20	19	16	12.6	−21.27	33.11	18	4.6	-	47.87	MOZAMBIQUE
#- 1087	8/20	21	18	0.1	−6.35	154.42	68	5.3	-	92.84	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#- 1088	8/21	3	25	13.0	−25.27	−70.25	33	4.6	-	73.04	ANTOFAGASTA, CHILE
#- 1089	8/21	4	43	18.0	−22.28	171.68	92	5.6	-	82.57	OUTHEAST OF THE LOYALTY ISLANDS
#- 1090	8/22	18	58	35.7	−10.66	114.23	10	5.1	-	74.79	SOUTH OF BALI, INDONESIA
#- 1091	8/22	22	37	49.6	−4.89	102.99	60	5.2	-	76.34	SOUTHERN SUMATRA, INDONESIA
#- 1092	8/23	0	59	36.3	−57.96	−25.59	61	5.0	-	29.20	SOUTH SANDWICH ISL REGION
#- 1093	8/23	11	38	4.3	−22.70	−174.82	10	4.9	-	85.08	TONGA REGION
#- 1094	8/23	12	6	22.0	−31.85	−178.85	69	5.0	-	75.38	KERMADEC ISLANDS REGION
#- 1095	8/24	7	0	26.3	−37.88	−75.06	24	4.8	-	62.75	OFF THE COAST OF BIO-BIO, CHILE
#- 1096	8/24	11	32	34.6	−21.65	170.76	156	4.6	-	82.95	SOUTHEAST OF LOYALTY ISLANDS
#- 1097	8/24	12	4	19.2	−3.05	102.30	104	4.6	-	77.85	SOUTHERN SUMATRA, INDONESIA
#- 1098	8/24	15	47	8.6	−31.76	−179.21	10	5.1	-	75.40	KERMADEC ISLANDS REGION
#- 1099	8/24	16	3	29.9	−3.67	129.20	61	4.4	-	86.64	SERAM, INDONESIA
#- 1100	8/25	0	4	48.1	−5.65	146.64	107	4.8	-	90.92	E NEW GUINEA REG, P.N.G.
#- 1101	8/25	4	0	7.1	1.18	95.85	29	5.1	-	79.83	OFF WEST COAST OF N SUMATRA
#- 1102	8/25	6	32	24.5	−10.01	107.50	10	4.4	-	73.04	SOUTH OF JAVA, INDONESIA
#- 1103	8/25	16	7	15.3	−33.48	57.05	10	5.4	-	36.95	SOUTHWEST INDIAN RIDGE
#- 1104	8/25	23	9	20.0	−24.89	179.72	529	4.6	-	81.87	SOUTH OF THE FIJI ISLANDS
#- 1105	8/26	4	58	54.4	49.58	155.53	67	5.1	-	144.54	KURIL ISLANDS
#- 1106	8/27	19	31	32.7	−3.25	123.27	30	4.7	-	84.91	SULAWESI, INDONESIA
#- 1107	8/27	20	47	59.0	−9.08	123.26	100	4.8	-	79.47	TIMOR REGION, INDONESIA
#- 1108	8/28	3	40	35.6	−21.29	−179.12	576	4.7	-	85.62	FIJI REGION
#- 1109	8/28	5	43	24.9	−2.07	100.74	60	5.5	-	78.27	KEPULAUAN MENTAWAI REG, IND.
#- 1110	8/28	8	49	15.9	−7.63	128.24	191	4.6	-	82.60	KEPULAUAN BARAT DAYA, IND.

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1111	8/29	0	22	30.7	−18.37	−177.75	565	4.5	-	88.75	FIJI REGION
#- 1112	8/29	1	55	24.2	−6.31	154.71	65	4.7	-	92.97	BOUGAINVILLE REG, P.N.G.
#- 1113	8/29	9	27	40.6	−11.18	164.81	38	4.9	-	91.41	SANTA CRUZ ISLANDS REGION
#- 1114	8/29	13	52	26.5	−19.32	−179.15	649	5.5	-	87.53	FIJI REGION
#- 1115	8/30	10	48	11.3	−34.51	−70.38	90	5.3	-	64.48	LIBERTADOR O'HIGGINS, CHILE
#- 1116	8/30	11	35	11.1	−18.38	168.09	36	5.0	-	85.41	VANUATU
#- 1117	8/30	13	52	24.0	−20.61	169.92	121	4.7	-	83.74	VANUATU
#- 1118	8/30	21	4	57.5	−4.16	128.79	27	4.7	-	86.04	BANDA SEA
#- 1119	8/30	21	55	42.5	51.55	−175.13	25	5.0	-	156.28	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1120	8/31	0	7	28.0	51.46	−175.25	26	5.4	-	156.17	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1121	8/31	2	32	16.1	−31.52	−69.14	106	4.7	-	66.86	SAN JUAN, ARGENTINA
#- 1122	8/31	6	43	55.8	51.47	−175.24	28	5.4	-	156.18	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1123	8/31	9	50	52.4	51.49	−175.06	26	5.2	-	156.26	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1124	8/31	9	54	13.2	51.34	−174.85	25	5.0	-	156.19	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1125	8/31	10	6	14.9	51.42	−174.96	26	5.2	-	156.23	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1126	8/31	17	56	56.1	−4.37	133.80	9	5.4	-	87.63	NEAR THE SOUTH COAST OF PAPUA, INDONESIA
#- 1127	8/31	22	47	47.0	−60.83	−23.18	10	4.8	-	26.28	SOUTH SANDWICH ISL REGION
#- 1128	8/31	23	52	6.5	47.99	148.15	389	4.9	-	140.56	NORTHWEST OF KURIL ISLANDS
#- 1129	9/2	2	51	13.2	42.24	133.64	443	5.6	-	130.47	PRIMOR'YE, RUSSIA
#- 1130	9/2	3	10	32.5	−30.82	−177.54	90	4.3	-	76.63	KERMADEC ISLANDS, NEW ZEALAND
#- 1131	9/2	9	2	5.6	−4.56	151.94	146	5.0	-	93.72	NEW BRITAIN REG, P.N.G.
#- 1132	9/2	21	0	55.9	−4.76	153.08	51	5.0	-	93.90	NEW IRELAND REG, P.N.G.
#- 1133	9/3	0	41	48.4	−33.81	56.19	14	5.3	-	36.50	SOUTHWEST INDIAN RIDGE
#- 1134	9/3	1	3	52.2	−34.30	56.19	13	5.3	-	36.02	SOUTH INDIAN OCEAN
#- 1135	9/3	6	0	19.4	−20.77	−178.67	594	4.4	-	86.21	FIJI REGION
#- 1136	9/3	13	18	59.9	−33.80	56.31	15	4.9	-	36.53	SOUTHWEST INDIAN RIDGE
#- 1137	9/3	23	46	55.7	5.37	125.81	137	5.3	-	93.87	MINDANAO, PHILIPPINES
#- 1138	9/4	4	16	31.2	51.60	−174.81	35	5.5	-	156.42	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1139	9/4	9	16	28.4	51.41	−174.85	24	5.1	-	156.25	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1140	9/4	10	4	6.3	53.19	−166.79	11	5.0	-	160.17	FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1141	9/5	5	52	40.0	−24.11	−70.49	50	4.2	-	74.20	ANTOFAGASTA, CHILE
#- 1142	9/5	9	34	23.4	51.41	−174.53	29	5.0	-	156.35	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1143	9/5	15	27	2.7	−7.24	144.06	7	5.7	-	88.54	NEAR SOUTH COAST OF NEW GUINEA, P.N.G.
#- 1144	9/6	2	28	10.2	−47.06	33.54	10	5.3	-	22.12	PRINCE EDWARD ISLANDS REGION
#- 1145	9/7	0	20	38.4	14.31	−91.78	65	5.4	-	117.23	GUATEMALA
#- 1146	9/7	13	55	49.9	−6.44	130.31	118	5.5	-	84.45	BANDA SEA
#- 1147	9/7	15	22	29.6	−20.38	−178.18	516	4.7	-	86.70	FIJI REGION
#- 1148	9/7	19	13	30.5	−19.55	−68.86	91	5.0	-	77.94	TARAPACA, CHILE
#- 1149	9/8	9	27	19.7	9.07	126.18	96	5.0	-	97.45	MINDANAO, PHILIPPINES
#- 1150	9/8	16	34	9.9	−7.97	129.47	50	4.6	-	82.73	KEPULAUAN BABAR, INDONESIA
#- 1151	9/9	16	4	57.3	−14.66	167.36	151	4.7	-	88.78	VANUATU
#- 1152	9/9	16	31	3.2	−10.66	164.76	20	5.2	-	91.89	SANTA CRUZ ISLANDS REGION
#- 1153	9/9	16	58	8.4	−10.64	164.66	34	5.1	-	91.88	SANTA CRUZ ISLANDS REGION
#- 1154	9/9	18	3	50.9	−28.67	−71.81	68	4.7	-	70.35	OFFSHORE ATACAMA, CHILE
#- 1155	9/10	1	12	40.8	1.36	122.17	35	5.2	-	88.83	MINAHASA, SULAWESI, INDONESIA
#- 1156	9/10	12	27	20.4	−45.91	95.54	10	4.7	-	36.10	SOUTHEAST INDIAN RIDGE
#- 1157	9/10	19	43	9.2	−33.66	−179.36	2	4.9	-	73.52	SOUTH OF KERMADEC ISLANDS
#- 1158	9/12	1	43	22.6	−31.72	−64.68	25	4.7	-	65.24	CORDOBA, ARGENTINA
#- 1159	9/12	4	20	47.1	−25.82	179.11	550	4.7	-	80.84	SOUTH OF THE FIJI ISLANDS
#- 1160	9/12	6	11	33.7	−8.63	128.03	84	4.5	-	81.60	TIMOR SEA
#- 1161	9/12	6	18	14.0	−20.51	−178.72	595	4.5	-	86.46	FIJI REGION
#- 1162	9/12	8	51	20.3	−55.12	−129.07	10	4.8	-	55.56	PACIFIC-ANTARCTIC RIDGE
#- 1163	9/12	9	3	48.0	−7.44	128.32	172	5.2	-	82.81	KEPULAUAN BARAT DAYA, INDONESIA
#- 1164	9/12	15	25	23.6	51.73	−171.22	39	5.1	-	157.62	FOX ISLANDS, ALEUTIAN ISLANDS, ALASKA
#- 1165	9/13	4	6	9.6	−1.05	127.13	11	4.8	-	88.34	KEPULAUAN OBI, INDONESIA
#- 1166	9/13	9	5	19.2	−24.75	178.70	527	5.0	-	81.79	SOUTH OF THE FIJI ISLANDS
#- 1167	9/13	19	30	35.1	−53.75	2.52	15	5.0	-	22.60	BOUVET ISLAND REGION
#- 1168	9/14	0	27	14.0	51.52	−174.69	23	5.5	-	156.39	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1169	9/14	6	8	42.9	−37.74	−73.65	18	4.4	-	62.46	OFFSHORE BIO-BIO, CHILE
#- 1170	9/14	19	13	51.9	−11.15	166.39	160	4.6	-	91.88	SANTA CRUZ ISLANDS

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1171	9/14	20	35	27.5	−6.36	154.76	79	5.7	-	92.94	BOUGAINVILLE REGION, PAPUA NEW GUINEA
#- 1172	9/15	0	23	55.5	54.36	167.65	25	5.4	-	152.76	KOMANDORSKIYE OSTROVA, RUSSIA REGION
#- 1173	9/15	2	5	49.2	−20.97	−178.66	563	4.3	-	86.02	FIJI REGION
#- 1174	9/15	2	10	52.0	−25.50	−178.69	366	4.8	-	81.60	SOUTH OF THE FIJI ISLANDS
#- 1175	9/15	6	4	34.1	−33.21	−69.63	105	4.1	-	65.45	MENDOZA, ARGENTINA
#- 1176	9/15	7	15	53.9	−7.65	117.39	303	4.5	-	78.71	BALI SEA
#- 1177	9/15	9	6	44.4	−2.91	129.52	32	4.9	-	87.47	SERAM, INDONESIA
#- 1178	9/15	16	21	36.8	51.55	−174.68	22	5.9	5.9	156.42	ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA
#- 1179	9/15	21	56	22.7	0.42	122.13	120	4.8	-	87.93	MINAHASA, SULAWESI, IND.
#- 1180	9/15	23	52	52.3	28.30	139.53	444	4.5	-	120.02	BONIN ISLANDS, JAPAN REGION
#- 1181	9/16	0	14	7.8	−20.39	−177.71	515	4.3	-	86.79	FIJI REGION
#- 1182	9/16	3	25	26.8	−5.46	68.76	10	4.8	-	66.52	CHAGOS ARCHIPELAGO REGION
#- 1183	9/16	4	8	4.3	6.06	126.05	156	4.8	-	94.60	MINDANAO, PHILIPPINES
#- 1184	9/16	5	31	19.3	−15.77	−69.31	227	4.5	-	81.64	LA PAZ, BOLIVIA
#- 1185	9/16	23	12	37.5	−24.55	−67.25	135	4.6	-	72.74	SALTA, ARGENTINA
#- 1186	9/16	23	25	48.0	−7.37	128.42	153	4.9	-	82.91	KEPULAUAN BARAT DAYA, IND.
#- 1187	9/17	7	12	5.4	−22.33	−65.86	263	4.6	-	74.35	JUJUY, ARGENTINA
#- 1188	9/17	10	39	28.2	−14.64	166.81	40	5.1	-	88.65	VANUATU
#- 1189	9/17	16	3	27.7	−7.41	128.59	119	5.0	-	82.93	KEPULAUAN BARAT DAYA, IND.
#- 1190	9/17	23	11	33.1	7.64	93.73	60	4.6	-	85.35	NICOBAR ISL, INDIA REGION
#- 1191	9/18	0	32	36.6	3.11	122.71	567	4.4	-	90.65	CELEBES SEA
#- 1192	9/18	12	42	39.5	−25.30	−70.83	11	4.9	-	73.19	OFFSHORE ANTOFAGASTA, CHILE
#- 1193	9/18	20	53	31.7	−3.23	144.23	6	5.4	-	92.37	NR N CST NEW GUINEA, P.N.G.
#- 1194	9/19	4	1	49.9	−56.03	−27.40	88	4.9	-	31.31	SOUTH SANDWICH ISL REGION
#- 1195	9/19	15	28	19.7	−15.82	−174.73	255	4.7	-	91.84	TONGA
#- 1196	9/19	17	25	9.3	37.07	140.65	22	5.3	-	128.35	EASTERN HONSHU, JAPAN
#- 1197	9/19	20	17	52.0	−22.36	−68.88	103	4.7	-	75.32	NNE OF CALAMA, CHILE
#- 1198	9/20	6	50	27.7	30.04	131.15	32	5.0	-	118.62	S OF NISHINOOMOTE, JAPAN
#- 1199	9/20	15	8	43.3	2.20	127.06	78	5.4	-	91.35	WNW OF TOBELO, INDONESIA
#- 1200	9/20	17	1	1.5	1.56	127.06	64	4.8	-	90.76	NNW OF TERNATE, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1201	9/20	20	16	48.6	49.98	179.33	30	5.0	-	153.16	SW OF AMATIGNAK ISLAND, ALASKA
#- 1202	9/22	21	6	33.6	−13.24	167.12	195	4.6	-	90.08	NNW OF SOLA, VANUATU
#- 1203	9/23	0	12	54.3	−51.92	140.45	16	4.6	-	46.28	WESTERN INDIAN-ANTARCTIC RIDGE
#- 1204	9/23	15	12	55.0	−9.86	115.96	40	5.2	-	76.13	SSW OF KUTE, INDONESIA
#- 1205	9/23	17	28	7.8	−4.94	153.64	75	5.4	-	93.92	SE OF TARON, PAPUA NEW GUINEA
#- 1206	9/24	7	22	50.9	7.37	59.54	4	5.5	-	77.71	CARLSBERG RIDGE
#- 1207	9/24	11	29	48.0	26.95	65.50	15	7.7	-	97.90	NNE OF AWARAN, PAKISTAN
#- 1208	9/24	13	1	39.0	27.31	65.62	14	5.6	-	98.27	NNE OF AWARAN, PAKISTAN
#- 1209	9/24	15	39	30.3	67.50	142.89	15	5.0	-	153.57	SW OF DRUZHINA, RUSSIA
#- 1210	9/24	23	7	25.7	4.01	128.30	64	4.9	-	93.49	N OF TOBELO, INDONESIA
#- 1211	9/24	23	38	21.9	−24.44	−175.10	10	5.4	-	83.32	SOUTH OF TONGA
#- 1212	9/25	3	34	18.4	−19.75	179.77	444	4.5	-	86.88	WNW OF NDOI ISLAND, FIJI
#- 1213	9/25	6	51	24.6	−49.96	−113.74	10	6.1	-	59.34	SOUTHERN EAST PACIFIC RISE
#- 1214	9/25	7	40	23.7	−50.03	−113.99	10	5.5	-	59.30	SOUTHERN EAST PACIFIC RISE
#- 1215	9/25	11	23	41.5	−6.45	154.33	35	4.9	-	92.71	W OF PANGUNA, PAPUA NEW GUINEA
#- 1216	9/25	13	14	40.5	−22.59	−68.06	117	5.2	-	74.84	NNE OF SAN PEDRO DE ATACAMA, CHILE
#- 1217	9/25	13	58	16.5	52.94	171.30	23	5.4	-	152.91	W OF ATTU STATION, ALASKA
#- 1218	9/25	16	42	43.2	−15.84	−74.51	40	7.1	-	83.26	SSE OF ACARI, PERU
#- 1219	9/27	2	0	11.8	−55.76	−28.67	89	4.7	-	31.96	NW OF VISOKOI ISLAND,
#- 1220	9/27	6	23	5.7	−56.17	−139.11	10	4.5	-	54.81	PACIFIC-ANTARCTIC RIDGE
#- 1221	9/27	15	11	59.1	−21.37	−66.52	216	4.5	-	75.47	SSW OF ATOCHA, BOLIVIA
#- 1222	9/28	7	34	6.5	27.18	65.51	12	6.8	-	98.12	NNE OF AWARAN, PAKISTAN
#- 1223	9/28	11	13	47.1	−16.55	−173.84	59	5.5	-	91.29	S OF HIHIFO, TONGA
#- 1224	9/29	8	55	60.0	−6.90	155.83	88	4.9	-	92.77	SSE OF PANGUNA, PAPUA NEW GUINEA
#- 1225	9/29	12	9	17.0	−35.66	−71.34	106	4.6	-	63.70	SE OF SAN CLEMENTE, CHILE
#- 1226	9/29	13	31	35.6	48.17	152.59	153	5.2	-	142.30	ESE OF VOSTOK, RUSSIA
#- 1227	9/29	16	25	5.6	−23.38	−179.84	539	4.9	-	83.44	SOUTH OF THE FIJI ISLANDS
#- 1228	9/29	17	39	14.7	−48.26	107.31	10	4.7	-	38.30	SOUTHEAST INDIAN RIDGE
#- 1229	9/29	23	6	59.0	−37.47	−73.75	49	5.4	-	62.74	NNW OF LEBU, CHILE
#- 1230	9/29	23	23	16.3	−37.41	−73.39	16	5.4	-	62.70	NNW OF CURANILAHUE, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1231	9/30	0	59	9.0	−37.56	−73.57	29	4.8	-	62.61	NE OF LEBU, CHILE
#- 1232	9/30	5	55	55.2	−30.93	−178.32	42	6.5	-	76.38	NE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1233	9/30	6	52	21.2	−30.97	−177.82	35	4.6	-	76.44	ENE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1234	9/30	10	8	7.1	−21.11	−179.05	620	4.8	-	85.81	SW OF NDOI ISLAND, FIJI
#- 1235	9/30	12	58	14.3	19.22	60.87	15	4.8	-	89.62	OWEN FRACTURE ZONE REGION
#- 1236	9/30	22	41	3.2	−20.88	−174.90	47	5.4	-	86.85	NE OF NUKU`ALOFA, TONGA
#- 1237	10/1	3	37	45.7	−15.97	−171.64	25	4.5	-	92.26	SSW OF VAILOATAI, AMERICAN SAMOA
#- 1238	10/1	4	12	21.0	−18.35	−69.38	122	4.7	-	79.25	SE OF PUTRE, CHILE
#- 1239	10/1	15	3	0.6	−2.97	146.99	34	4.6	-	93.56	SSW OF LORENGAU, PAPUA NEW GUINEA
#- 1240	10/1	16	22	32.6	−41.62	174.46	20	4.5	-	64.58	SW OF BROOKLYN, NEW ZEALAND
#- 1241	10/1	20	3	11.8	−21.33	−179.29	607	4.6	-	85.54	SW OF NDOI ISLAND, FIJI
#- 1242	10/2	1	6	37.3	11.23	57.59	8	5.7	-	81.30	OWEN FRACTURE ZONE REGION
#- 1243	10/2	1	13	17.5	11.11	57.58	10	5.0	-	81.18	OWEN FRACTURE ZONE REGION
#- 1244	10/2	4	10	10.7	−17.95	−178.55	581	4.5	-	88.99	SE OF LAMBASA, FIJI
#- 1245	10/2	10	6	55.3	−2.26	139.28	10	5.2	-	91.55	WNW OF ABEPURA, INDONESIA
#- 1246	10/2	15	6	49.0	−14.92	167.40	105	4.9	-	88.54	ENE OF PORT-OLRY, VANUATU
#- 1247	10/2	17	13	5.1	−6.28	130.30	122	4.5	-	84.60	NNW OF SAUMLAKI, INDONESIA
#- 1248	10/2	21	0	0.1	−57.97	−25.14	57	4.8	-	29.03	NE OF BRISTOL ISLAND, SOUTH SANDWICH ISL.
#- 1249	10/3	0	46	8.9	−18.49	−177.81	453	4.6	-	88.62	NNE OF NDOI ISLAND, FIJI
#- 1250	10/3	3	31	22.5	11.25	57.51	10	4.7	-	81.31	OWEN FRACTURE ZONE REGION
#- 1251	10/3	6	12	39.1	27.29	88.40	10	5.2	-	102.76	WNW OF SINGTAM, INDIA
#- 1252	10/3	15	24	23.2	−13.70	166.57	60	5.0	-	89.48	W OF SOLA, VANUATU
#- 1253	10/3	17	32	42.6	−29.58	−178.45	189	5.1	-	77.67	WSW OF RAOUL ISLAND, NEW ZEALAND
#- 1254	10/3	17	46	53.5	55.19	167.14	11	5.4	-	153.23	E OF NIKOL'SKOYE, RUSSIA
#- 1255	10/3	19	49	56.5	−14.04	−14.27	10	4.6	-	64.26	SOUTHERN MID-ATLANTIC RIDGE
#- 1256	10/3	21	40	46.2	−23.30	−179.71	541	4.8	-	83.53	SOUTH OF THE FIJI ISLANDS
#- 1257	10/4	0	37	36.9	−10.53	121.45	51	4.7	-	77.47	SE OF MBURUKULLU, INDONESIA
#- 1258	10/4	8	31	55.5	−30.87	−178.13	35	5.1	-	76.47	NE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1259	10/4	10	35	42.7	−11.39	121.79	8	5.2	-	76.79	SE OF MBURUKULLU, INDONESIA
#- 1260	10/4	12	44	14.0	1.70	128.40	67	5.2	-	91.37	E OF TOBELO, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1261	10/4	17	26	13.6	−38.61	78.37	13	6.4	-	36.97	SE OF AMSTERDAM ISLAND,
#- 1262	10/4	17	30	38.6	−39.13	78.15	14	5.0	-	36.42	SSE OF AMSTERDAM ISLAND,
#- 1263	10/4	17	56	31.0	−38.97	78.17	15	4.5	-	36.57	SSE OF AMSTERDAM ISLAND,
#- 1264	10/4	17	57	55.1	−29.78	−111.85	12	4.8	-	78.92	EASTER ISLAND REGION
#- 1265	10/4	18	26	18.2	−38.77	78.02	15	4.5	-	36.71	SSE OF AMSTERDAM ISLAND,
#- 1266	10/5	5	29	31.9	−19.93	−178.33	574	4.5	-	87.11	NNE OF NDOI ISLAND, FIJI
#- 1267	10/5	6	31	18.1	−7.52	−13.65	10	4.5	-	70.27	ENE OF GEORGETOWN, SAINT HELENA
#- 1268	10/5	8	57	24.0	51.60	−173.25	25	5.0	-	156.90	SE OF ATKA, ALASKA
#- 1269	10/5	11	6	56.0	−17.60	−178.91	523	4.5	-	89.26	SE OF LAMBASA, FIJI
#- 1270	10/5	11	10	21.5	−8.68	112.53	78	4.7	-	76.03	SSW OF KRAJAN TAMBAKREJO, INDONESIA
#- 1271	10/5	14	35	16.9	−30.56	−177.76	10	5.0	-	76.84	S OF RAOUL ISLAND, NEW ZEALAND
#- 1272	10/5	17	30	54.9	−8.20	117.69	19	4.5	-	78.31	SW OF LABUHANKANANGA, INDONESIA
#- 1273	10/5	20	50	29.9	−21.78	−179.30	581	4.7	-	85.10	SSW OF NDOI ISLAND, FIJI
#- 1274	10/5	21	49	37.8	−17.52	167.29	98	4.6	-	86.02	WNW OF PORT-VILA, VANUATU
#- 1275	10/6	1	37	20.9	45.70	26.58	127	5.3	-	115.08	W OF NEREJU, ROMANIA
#- 1276	10/6	6	59	11.0	12.97	92.98	35	4.5	-	90.25	NNE OF BAMBOO FLAT, INDIA
#- 1277	10/6	12	48	8.2	−16.18	−69.98	182	4.5	-	81.48	WSW OF ILAVE, PERU
#- 1278	10/6	16	16	4.9	−41.32	−85.26	10	5.0	-	62.29	WEST CHILE RISE
#- 1279	10/6	16	37	2.3	−10.09	160.56	47	4.7	-	91.20	SE OF HONIARA, SOLOMON ISLANDS
#- 1280	10/6	16	38	8.8	12.31	141.69	104	6.0	-	106.02	MARIANA ISLANDS REGION
#- 1281	10/6	16	53	31.1	−55.27	−125.17	10	4.6	-	55.18	SOUTHERN EAST PACIFIC RISE
#- 1282	10/6	17	20	40.4	−53.19	140.35	10	4.6	-	45.15	WEST OF MACQUARIE ISLAND
#- 1283	10/6	21	18	49.1	−19.73	169.10	79	5.0	-	84.37	SW OF ISANGEL, VANUATU
#- 1284	10/6	21	33	19.8	−36.73	−97.48	10	6.2	-	69.51	WEST CHILE RISE
#- 1285	10/7	1	33	43.3	−20.46	−173.57	35	4.7	-	87.51	SE OF PANGAI, TONGA
#- 1286	10/7	13	32	9.7	−10.08	151.80	35	5.3	-	88.46	ENE OF SAMARAI, PAPUA NEW GUINEA
#- 1287	10/7	15	17	25.1	−10.17	151.85	35	5.1	-	88.40	ENE OF SAMARAI, PAPUA NEW GUINEA
#- 1288	10/8	7	1	59.1	−35.75	−104.38	10	4.5	-	71.82	SOUTHEAST OF EASTER ISLAND
#- 1289	10/8	7	13	32.3	−6.58	130.37	87	4.5	-	84.34	NW OF SAUMLAKI, INDONESIA
#- 1290	10/8	8	40	16.3	1.53	30.57	25	4.6	-	70.77	DEMOCRATIC REPUBLIC OF THE CONGO

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1291	10/8	9	13	56.0	−6.45	129.96	166	4.6	-	84.32	NW OF SAUMLAKI, INDONESIA
#- 1292	10/8	9	37	24.8	6.46	125.96	78	4.9	-	94.94	WSW OF LUZON, PHILIPPINES
#- 1293	10/8	11	27	31.6	−14.48	−75.81	43	4.5	-	84.96	SSW OF SANTIAGO, PERU
#- 1294	10/8	13	39	55.6	−58.89	149.04	10	5.7	-	42.62	WEST OF MACQUARIE ISLAND
#- 1295	10/8	18	37	44.1	−17.15	168.40	48	4.9	-	86.67	N OF PORT-VILA, VANUATU
#- 1296	10/9	17	3	46.2	−22.14	−67.13	159	5.2	-	74.95	NE OF SAN PEDRO DE ATACAMA, CHILE
#- 1297	10/9	19	49	4.4	52.44	−169.35	35	5.1	-	158.79	SSW OF NIKOLSKI, ALASKA
#- 1298	10/10	3	32	22.2	−20.86	−67.16	192	5.0	-	76.16	SW OF UYUNI, BOLIVIA
#- 1299	10/10	15	7	32.2	0.59	126.33	42	4.9	-	89.59	W OF KOTA TERNATE, INDONESIA
#- 1300	10/11	1	45	8.0	−28.08	−65.75	33	4.6	-	68.97	SSW OF SAN ANTONIO, ARGENTINA
#- 1301	10/11	1	51	20.3	−10.28	161.16	79	5.3	-	91.20	WNW OF KIRAKIRA, SOLOMON ISLANDS
#- 1302	10/11	2	45	20.7	−0.53	127.19	74	4.7	-	88.86	NNW OF LAIWUI, INDONESIA
#- 1303	10/11	3	32	2.6	−19.93	−69.00	98	4.9	-	77.64	ENE OF IQUIQUE, CHILE
#- 1304	10/11	8	56	6.0	−39.10	−75.28	35	4.8	-	61.68	WNW OF CORRAL, CHILE
#- 1305	10/11	12	48	7.8	−27.97	−64.72	37	4.6	-	68.73	E OF SAN PEDRO, ARGENTINA
#- 1306	10/11	13	12	57.8	−5.80	103.09	38	5.3	-	75.52	SW OF KURIPAN, INDONESIA
#- 1307	10/11	21	25	0.0	−30.66	−178.48	151	6.2	-	76.61	NNE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1308	10/12	2	10	27.3	10.90	−62.32	63	6.0	-	104.22	N OF GUEIRIA, VENEZUELA
#- 1309	10/12	13	11	53.4	35.51	23.25	40	6.6	-	105.17	W OF PLATANOS, GREECE
#- 1310	10/12	14	30	9.7	0.75	122.21	97	5.5	-	88.27	NNW OF TILAMUTA, INDONESIA
#- 1311	10/12	15	49	14.6	−30.09	−177.94	55	4.7	-	77.27	S OF RAOUL ISLAND, NEW ZEALAND
#- 1312	10/12	20	1	37.1	−36.74	78.72	4	5.5	-	38.80	NE OF AMSTERDAM ISLAND,
#- 1313	10/12	21	21	31.5	−52.16	−5.22	10	5.1	-	26.52	SOUTHERN MID-ATLANTIC RIDGE
#- 1314	10/13	1	6	40.8	−20.45	−66.69	238	4.7	-	76.39	E OF UYUNI, BOLIVIA
#- 1315	10/13	1	17	54.5	36.44	70.71	210	5.3	-	108.02	AFGHANISTAN
#- 1316	10/13	7	15	23.4	−18.95	178.91	58	5.1	-	87.47	SSE OF SUVA, FIJI
#- 1317	10/13	17	32	45.6	3.96	95.86	46	5.6	-	82.48	WSW OF MEULABOH, INDONESIA
#- 1318	10/13	21	39	49.7	−54.43	143.48	15	5.1	-	44.98	WEST OF MACQUARIE ISLAND
#- 1319	10/14	0	11	26.4	−54.46	143.76	10	4.7	-	45.03	WEST OF MACQUARIE ISLAND
#- 1320	10/14	4	10	24.2	−54.01	7.64	10	4.5	-	20.75	E OF BOUVET ISLAND, BOUVET ISLAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1321	10/14	5	30	29.2	−17.43	−173.41	10	4.5	-	90.50	NNE OF NEIAFU, TONGA
#- 1322	10/14	13	48	45.0	−0.23	127.22	112	4.7	-	89.15	S OF KOTA TERNATE, INDONESIA
#- 1323	10/14	16	9	10.7	−18.48	−178.01	548	5.0	-	88.59	NNE OF NDOI ISLAND, FIJI
#- 1324	10/14	16	14	11.9	−29.34	−178.30	26	4.6	-	77.93	WSW OF RAOUL ISLAND, NEW ZEALAND
#- 1325	10/14	18	29	47.7	−3.82	141.43	69	4.9	-	90.84	S OF VANIMO, PAPUA NEW GUINEA
#- 1326	10/14	23	56	23.4	−1.97	100.37	42	5.0	-	78.24	SSW OF PAINAN, INDONESIA
#- 1327	10/15	0	12	32.1	9.88	124.12	19	7.1	-	97.48	SE OF SAGBAYAN, PHILIPPINES
#- 1328	10/15	0	17	39.9	9.97	124.18	10	5.0	-	97.58	W OF SAN MIGUEL, PHILIPPINES
#- 1329	10/15	0	19	26.6	10.01	124.05	10	5.3	-	97.57	SSW OF INABANGA, PHILIPPINES
#- 1330	10/15	0	28	57.2	9.95	124.22	17	5.2	-	97.58	N OF DANAO, PHILIPPINES
#- 1331	10/15	1	37	54.1	9.71	123.74	10	5.1	-	97.19	NNW OF SAN AGUSTIN, PHILIPPINES
#- 1332	10/15	2	2	25.6	−29.59	−178.45	10	4.9	-	77.65	SW OF RAOUL ISLAND, NEW ZEALAND
#- 1333	10/15	2	41	59.5	9.93	123.98	10	5.0	-	97.48	S OF PANAYTAYON, PHILIPPINES
#- 1334	10/15	3	3	28.0	−21.08	−177.28	388	4.7	-	86.20	ESE OF NDOI ISLAND, FIJI
#- 1335	10/15	3	54	46.1	−15.24	167.70	111	4.5	-	88.32	ENE OF LUGANVILLE, VANUATU
#- 1336	10/15	8	36	20.9	9.83	124.26	7	5.6	-	97.48	NW OF SIERRA BULLONES, PHILIPPINES
#- 1337	10/15	8	42	49.6	9.79	123.69	16	5.7	-	97.24	W OF LOON, PHILIPPINES
#- 1338	10/15	8	52	18.1	9.92	124.04	10	5.3	-	97.48	SSE OF CLARIN, PHILIPPINES
#- 1339	10/15	12	49	20.2	−9.74	114.76	10	4.9	-	75.83	SSW OF KANGIN, INDONESIA
#- 1340	10/15	17	13	50.6	−7.07	125.76	503	4.5	-	82.24	N OF DILI, EAST TIMOR
#- 1341	10/15	18	49	43.5	−15.20	167.59	130	5.1	-	88.32	NE OF LUGANVILLE, VANUATU
#- 1342	10/15	20	13	20.6	−18.50	−63.27	38	5.0	-	77.05	NNE OF ABAPO, BOLIVIA
#- 1343	10/15	20	15	50.7	−18.51	−63.23	43	4.9	-	77.04	NE OF ABAPO, BOLIVIA
#- 1344	10/15	20	17	19.9	−48.89	121.47	15	4.5	-	42.74	WESTERN INDIAN-ANTARCTIC RIDGE
#- 1345	10/15	21	53	3.2	−48.68	31.29	10	4.5	-	20.68	SOUTH OF AFRICA
#- 1346	10/16	0	20	42.3	−41.32	−90.88	10	4.9	-	63.65	SOUTHEAST OF EASTER ISLAND
#- 1347	10/16	7	31	28.3	9.64	123.76	21	5.0	-	97.13	WNW OF SAN AGUSTIN, PHILIPPINES
#- 1348	10/16	10	30	58.6	−6.45	154.93	35	6.8	-	92.91	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1349	10/16	12	46	53.1	−6.40	154.90	35	5.3	-	92.95	W OF PANGUNA, PAPUA NEW GUINEA
#- 1350	10/16	14	31	57.5	−15.90	−171.95	24	4.9	-	92.27	E OF HIHIFO, TONGA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1351	10/16	14	59	1.9	−23.57	−175.67	19	5.0	-	84.07	SSW OF `OHONUA, TONGA
#- 1352	10/16	16	41	57.7	−1.91	118.95	35	4.7	-	84.63	NW OF BABANA, INDONESIA
#- 1353	10/16	19	26	24.4	−47.27	165.71	23	4.9	-	57.28	WSW OF RIVERTON, NEW ZEALAND
#- 1354	10/16	23	37	28.4	9.70	123.79	10	5.3	-	97.19	SW OF BOOD, PHILIPPINES
#- 1355	10/17	6	31	43.8	−6.63	154.79	26	4.8	-	92.70	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1356	10/17	11	13	11.1	−10.91	165.94	56	5.2	-	91.99	SSE OF LATA, SOLOMON ISLANDS
#- 1357	10/17	15	57	46.9	−6.69	154.83	39	4.9	-	92.65	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1358	10/17	20	12	36.3	−23.05	69.14	10	4.8	-	49.41	MID-INDIAN RIDGE
#- 1359	10/18	1	39	13.4	−28.85	−177.50	72	4.8	-	78.56	NE OF RAOUL ISLAND, NEW ZEALAND
#- 1360	10/18	13	18	22.6	28.26	66.53	10	5.2	-	99.34	SE OF SURAB, PAKISTAN
#- 1361	10/18	18	1	41.2	−19.73	−176.74	305	4.8	-	87.62	NW OF NUKU`ALOFA, TONGA
#- 1362	10/18	20	55	16.7	−55.19	−33.19	22	4.9	-	34.00	SOUTH GEORGIA AND THE SOUTH SANDWICH ISL.
#- 1363	10/18	22	47	50.9	−8.91	−74.45	141	4.6	-	89.79	S OF PUCALLPA, PERU
#- 1364	10/19	1	38	35.8	−29.78	−176.63	58	4.5	-	77.82	ESE OF RAOUL ISLAND, NEW ZEALAND
#- 1365	10/19	11	37	13.9	−7.96	154.52	10	5.2	-	91.35	SSW OF PANGUNA, PAPUA NEW GUINEA
#- 1366	10/19	13	43	46.3	−56.29	−26.69	63	4.9	-	30.85	NE OF VISOKOI ISLAND,
#- 1367	10/19	17	11	35.9	−33.14	−178.98	8	4.6	-	74.10	S OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1368	10/19	17	54	54.7	26.09	−110.32	9	6.6	-	133.42	SW OF ETCHOROPO, MEXICO
#- 1369	10/19	22	49	55.6	−6.57	154.85	35	5.2	-	92.77	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1370	10/20	4	1	57.3	−23.74	179.06	554	4.6	-	82.85	SOUTH OF THE FIJI ISLANDS
#- 1371	10/20	8	5	39.6	9.77	123.70	10	5.3	-	97.22	WSW OF LOON, PHILIPPINES
#- 1372	10/20	12	10	11.9	2.23	−99.89	10	5.0	-	107.82	WEST OF THE GALAPAGOS ISLANDS
#- 1373	10/20	13	16	38.7	−56.51	−25.69	10	5.6	-	30.33	ENE OF VISOKOI ISLAND,
#- 1374	10/20	18	48	3.8	−6.45	155.09	35	5.1	-	92.96	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1375	10/20	19	24	18.1	−6.37	147.72	77	4.7	-	90.61	NNW OF FINSCHHAFEN, PAPUA NEW GUINEA
#- 1376	10/20	19	45	7.9	35.76	77.42	97	5.4	-	108.53	NNE OF THANG, INDIA
#- 1377	10/20	22	24	20.5	−10.45	161.28	74	4.8	-	91.07	W OF KIRAKIRA, SOLOMON ISLANDS
#- 1378	10/20	23	3	20.3	9.78	124.03	23	5.3	-	97.35	ENE OF BALILIHAN, PHILIPPINES
#- 1379	10/21	2	27	13.7	35.34	77.08	49	5.4	-	108.06	NNE OF THANG, INDIA
#- 1380	10/21	4	1	54.3	−22.95	−174.71	12	5.5	-	84.86	S OF `OHONUA, TONGA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1381	10/21	5	33	55.6	−56.53	−25.60	35	4.8	-	30.29	E OF VISOKOI ISLAND,
#- 1382	10/21	7	50	5.4	−6.85	155.17	19	4.7	-	92.60	SSW OF PANGUNA, PAPUA NEW GUINEA
#- 1383	10/21	13	50	16.0	−10.17	−13.19	10	5.1	-	67.61	SSE OF GEORGETOWN, SAINT HELENA
#- 1384	10/21	17	21	4.4	−22.63	169.80	28	5.0	-	81.76	ESE OF TADINE, NEW CALEDONIA
#- 1385	10/21	18	17	22.0	−37.81	−75.10	25	5.0	-	62.82	W OF LEBU, CHILE
#- 1386	10/21	19	53	59.3	−18.58	−63.28	32	4.8	-	76.98	NE OF ABAPO, BOLIVIA
#- 1387	10/22	1	18	46.0	37.73	141.89	26	5.3	-	129.38	ENE OF NAMIE, JAPAN
#- 1388	10/22	3	36	12.7	−16.13	−173.76	89	4.6	-	91.72	S OF HIHIFO, TONGA
#- 1389	10/22	5	40	39.1	5.10	95.97	10	5.4	-	83.60	S OF SIGLI, INDONESIA
#- 1390	10/22	9	39	35.9	−22.56	−174.89	10	4.7	-	85.21	S OF `OHONUA, TONGA
#- 1391	10/22	17	21	43.5	−60.71	−19.50	20	4.8	-	25.07	EAST OF THE SOUTH SANDWICH ISLANDS
#- 1392	10/22	20	53	57.0	5.20	125.84	54	5.1	-	93.72	ESE OF SARANGANI, PHILIPPINES
#- 1393	10/22	21	15	51.2	−6.34	154.97	50	5.5	-	93.02	W OF PANGUNA, PAPUA NEW GUINEA
#- 1394	10/23	8	23	30.4	−23.01	−177.14	160	6.0	-	84.34	SW OF VAINI, TONGA
#- 1395	10/23	16	32	40.7	−22.62	179.21	585	5.0	-	83.97	SOUTH OF THE FIJI ISLANDS
#- 1396	10/23	22	35	54.6	−35.23	−106.55	10	4.6	-	72.70	SOUTHERN EAST PACIFIC RISE
#- 1397	10/24	0	25	46.1	−30.83	−178.22	49	5.5	-	76.50	NE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1398	10/24	1	37	35.7	51.12	156.74	146	5.0	-	146.25	SSE OF OZERNOVSKIY, RUSSIA
#- 1399	10/24	17	57	37.0	14.29	93.07	23	5.4		91.53	N OF BAMBOO FLAT, INDIA
#- 1400	10/24	19	25	10.9	−58.15	−12.80	23	6.7	-	24.50	EAST OF THE SOUTH SANDWICH ISLANDS
#- 1401	10/24	20	7	30.6	−57.53	−27.75	283	4.5	-	30.28	SSW OF VISOKOI ISLAND,
#- 1402	10/24	20	32	44.7	−22.59	−176.53	123	5.3	-	84.87	SW OF VAINI, TONGA
#- 1403	10/25	0	0	32.2	−6.10	130.41	144	4.8	-	84.81	NNW OF SAUMLAKI, INDONESIA
#- 1404	10/25	3	21	19.2	−16.72	−173.64	10	5.1	-	91.16	S OF HIHIFO, TONGA
#- 1405	10/25	8	36	4.2	−25.11	−177.02	106	4.6	-	82.31	SOUTH OF THE FIJI ISLANDS
#- 1406	10/25	9	15	26.6	−33.44	−178.44	10	4.6	-	73.90	S OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1407	10/25	17	10	19.7	37.16	144.66	35	7.1	-	129.86	OFF THE EAST COAST OF HONSHU, JAPAN
#- 1408	10/25	17	11	24.7	−1.04	67.59	16	5.2	-	70.64	CARLSBERG RIDGE
#- 1409	10/25	17	22	54.0	37.25	144.60	36	5.1	-	129.93	OFF THE EAST COAST OF HONSHU, JAPAN
#- 1410	10/25	17	27	59.9	37.17	144.97	37	5.4	-	129.98	OFF THE EAST COAST OF HONSHU, JAPAN

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1411	10/25	17	54	31.2	−19.36	−173.73	9	5.7	-	88.55	NE OF PANGAI, TONGA
#- 1412	10/25	18	38	38.8	−25.20	−115.75	17	4.9	-	84.01	SOUTHERN EAST PACIFIC RISE
#- 1413	10/25	21	27	34.7	37.11	144.67	10	5.5	-	129.82	OFF THE EAST COAST OF HONSHU, JAPAN
#- 1414	10/25	21	51	57.9	−56.26	−27.41	109	5.3	-	31.13	NNW OF VISOKOI ISLAND,
#- 1415	10/26	13	17	21.3	−17.80	−178.65	533	4.6	-	89.12	SE OF LAMBASA, FIJI
#- 1416	10/26	14	55	20.2	−7.05	129.76	144	4.5	-	83.69	WNW OF SAUMLAKI, INDONESIA
#- 1417	10/26	22	8	6.2	−6.33	132.79	35	4.7	-	85.45	S OF TUAL, INDONESIA
#- 1418	10/27	12	7	57.0	−10.93	165.98	47	5.0	-	91.98	SE OF LATA, SOLOMON ISLANDS
#- 1419	10/27	13	51	42.0	−56.63	−150.78	15	4.8	-	54.16	PACIFIC-ANTARCTIC RIDGE
#- 1420	10/27	16	58	45.1	−6.52	155.07	44	4.6	-	92.89	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1421	10/27	18	13	6.4	37.09	144.57	20	5.5	-	129.77	OFF THE EAST COAST OF HONSHU, JAPAN
#- 1422	10/28	1	38	26.4	−18.17	−177.88	510	4.6	-	88.92	NNE OF NDOI ISLAND, FIJI
#- 1423	10/28	7	34	46.9	8.59	93.48	36	4.5	-	86.19	NNE OF MOHEAN, INDIA
#- 1424	10/28	11	55	59.4	−20.48	−177.93	505	4.5	-	86.65	ENE OF NDOI ISLAND, FIJI
#- 1425	10/28	14	54	28.0	76.28	7.12	10	5.3	-	146.60	SW OF LONGYEARBYEN, SVALBARD AND JAN MAYEN
#- 1426	10/28	16	23	24.5	−3.32	145.55	8	4.7	-	92.73	ENE OF ANGORAM, PAPUA NEW GUINEA
#- 1427	10/28	19	28	15.3	3.65	97.39	123	4.5	-	82.65	WSW OF PANGKALAN BRANDAN, INDONESIA
#- 1428	10/28	20	1	23.9	−6.35	154.99	35	5.3	-	93.02	W OF PANGUNA, PAPUA NEW GUINEA
#- 1429	10/28	20	36	1.8	−56.28	−27.36	116	5.0	-	31.10	NNW OF VISOKOI ISLAND,
#- 1430	10/29	3	40	49.0	−30.71	−71.28	47	4.7	-	68.29	SSW OF OVALLE, CHILE
#- 1431	10/29	4	21	26.0	−64.71	−178.01	10	4.6	-	43.78	PACIFIC-ANTARCTIC RIDGE
#- 1432	10/29	7	41	33.8	−46.73	33.38	10	4.5	-	22.46	PRINCE EDWARD ISLANDS REGION
#- 1433	10/29	8	21	53.3	−25.97	−177.16	71	5.0	-	81.44	SOUTH OF THE FIJI ISLANDS
#- 1434	10/29	10	37	56.0	−61.69	154.67	10	5.9	-	41.54	BALLENY ISLANDS REGION
#- 1435	10/29	11	1	54.9	−20.06	−178.29	583	5.1	-	86.99	NNE OF NDOI ISLAND, FIJI
#- 1436	10/29	12	51	5.3	−15.44	−71.72	131	5.0	-	82.75	NNW OF CHIVAY, PERU
#- 1437	10/29	15	45	26.5	4.33	126.05	91	5.3	-	92.99	SSE OF SARANGANI, PHILIPPINES
#- 1438	10/29	20	17	50.7	43.24	130.88	554	5.1	-	130.40	WNW OF XITUMENZI, CHINA
#- 1439	10/29	20	35	59.4	14.71	54.76	10	4.5	-	84.47	NNE OF TAMRIDA, YEMEN
#- 1440	10/30	2	29	12.0	−35.44	−73.19	39	5.8	-	64.46	W OF CONSTITUCION, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1441	10/30	2	51	47.0	−35.31	−73.40	42	6.2	-	64.64	W OF CONSTITUCION, CHILE
#- 1442	10/30	3	33	5.0	−35.46	−73.33	36	4.8	-	64.49	W OF CONSTITUCION, CHILE
#- 1443	10/30	5	37	2.1	−24.17	179.23	520	4.5	-	82.46	SOUTH OF THE FIJI ISLANDS
#- 1444	10/30	8	52	48.8	−14.99	166.84	44	5.0	-	88.32	WNW OF PORT-OLRY, VANUATU
#- 1445	10/30	13	59	59.1	−25.23	179.80	526	5.0	-	81.56	SOUTH OF THE FIJI ISLANDS
#- 1446	10/30	21	45	34.8	−8.11	107.80	58	4.9	-	74.93	SSW OF CIHERAS, INDONESIA
#- 1447	10/31	0	34	0.2	−9.00	119.63	38	5.1	-	78.25	N OF SANGUMATA, INDONESIA
#- 1448	10/31	3	3	34.1	44.71	124.00	11	5.1	-	129.40	S OF QIAN'AN, CHINA
#- 1449	10/31	4	51	0.4	−3.82	129.92	48	4.5	-	86.76	ESE OF AMAHAI, INDONESIA
#- 1450	10/31	6	35	14.1	−10.15	−13.20	10	4.5	-	67.63	SSE OF GEORGETOWN, SAINT HELENA
#- 1451	10/31	8	58	12.8	−18.64	65.36	10	4.6	-	52.94	ENE OF PORT MATHURIN, MAURITIUS
#- 1452	10/31	9	1	59.8	−18.60	65.31	10	5.0	-	52.97	ENE OF ILE RODRIGUES, MAURITIUS
#- 1453	10/31	12	2	8.7	23.59	121.44	10	6.3	-	109.29	SSW OF HUALIAN, TAIWAN
#- 1454	10/31	15	1	5.6	38.25	142.67	22	5.3	-	130.12	E OF ISHINOMAKI, JAPAN
#- 1455	10/31	19	29	5.3	−52.65	18.85	10	4.6	-	18.88	SOUTHWEST OF AFRICA
#- 1456	10/31	23	3	59.7	−30.29	−71.52	27	6.6	-	68.75	SSW OF COQUIMBO, CHILE
#- 1457	11/1	0	25	10.7	−22.53	−176.58	108	4.6	-	84.91	SW OF VAINI, TONGA
#- 1458	11/1	3	24	9.5	−20.76	−178.44	548	5.1	-	86.27	ESE OF NDOI ISLAND, FIJI
#- 1459	11/1	4	4	6.5	−29.59	−178.31	5	4.6	-	77.69	SW OF RAOUL ISLAND, NEW ZEALAND
#- 1460	11/1	6	6	31.2	−6.63	128.21	316	4.7	-	83.53	BANDA SEA
#- 1461	11/1	6	46	13.3	−52.80	18.66	10	4.5	-	18.79	SOUTHWEST OF AFRICA
#- 1462	11/1	11	33	3.5	−52.99	18.70	10	4.9	-	18.61	SOUTHWEST OF AFRICA
#- 1463	11/1	16	30	14.3	44.63	148.18	78	5.2	-	137.70	SSE OF KURIL'SK, RUSSIA
#- 1464	11/1	17	28	44.4	−32.17	−178.36	68	4.6	-	75.16	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1465	11/1	18	57	44.3	−33.79	−178.51	7	4.8	-	73.56	S OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1466	11/1	22	43	27.9	−18.51	−176.60	303	4.7	-	88.84	W OF NEIAFU, TONGA
#- 1467	11/2	15	52	46.1	−23.64	−112.60	10	6.0	-	85.09	EASTER ISLAND REGION
#- 1468	11/2	16	38	52.3	−11.73	166.74	205	5.0	-	91.42	SE OF LATA, SOLOMON ISLANDS
#- 1469	11/2	17	18	22.3	2.15	92.48	30	4.7	-	79.75	OFF THE WEST COAST OF NORTHERN SUMATRA
#- 1470	11/2	18	53	46.9	−19.17	−172.64	10	6.2	-	88.94	ESE OF NEIAFU, TONGA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1471	11/2	18	56	13.4	−19.15	−172.73	9	5.2	-	88.94	ESE OF NEIAFU, TONGA
#- 1472	11/2	19	5	56.7	−19.21	−172.40	10	5.7	-	88.94	ESE OF NEIAFU, TONGA
#- 1473	11/2	19	13	35.8	−19.30	−172.53	10	5.1	-	88.83	ESE OF NEIAFU, TONGA
#- 1474	11/2	22	26	1.0	−20.73	168.50	10	4.5	-	83.26	NE OF TADINE, NEW CALEDONIA
#- 1475	11/2	22	32	10.4	53.48	−163.66	37	5.0	-	161.26	S OF FALSE PASS, ALASKA
#- 1476	11/3	0	12	36.8	−49.54	117.34	10	5.1	-	40.77	WESTERN INDIAN-ANTARCTIC RIDGE
#- 1477	11/3	1	44	2.4	−24.04	−66.69	187	4.5	-	73.03	WNW OF SAN ANTONIO DE LOS COBRES, ARGENTINA
#- 1478	11/3	1	54	33.0	−7.16	120.85	4	4.6	-	80.40	NNE OF DAMPEK, INDONESIA
#- 1479	11/3	2	35	31.0	−7.86	107.98	76	4.7	-	75.22	SSW OF CIPATUJAH SELATAN, INDONESIA
#- 1480	11/3	2	42	54.2	−5.86	148.85	89	5.8	-	91.47	WNW OF KANDRIAN, PAPUA NEW GUINEA
#- 1481	11/3	5	28	3.4	−52.89	27.50	10	4.6	-	16.99	SOUTH OF AFRICA
#- 1482	11/3	5	25	15.3	35.97	140.12	77	5.1	-	127.18	WNW OF USHIKU, JAPAN
#- 1483	11/3	6	53	51.4	−23.66	−112.69	10	4.8	-	85.08	EASTER ISLAND REGION
#- 1484	11/3	6	54	7.3	10.55	92.87	55	4.8	-	87.89	S OF PORT BLAIR, INDIA
#- 1485	11/3	8	52	56.7	38.27	142.70	35	5.2	-	130.15	E OF ISHINOMAKI, JAPAN
#- 1486	11/3	10	8	54.9	−19.21	−172.53	4	5.6	-	88.91	ESE OF NEIAFU, TONGA
#- 1487	11/3	11	3	38.4	4.66	123.35	532	5.9	-	92.33	SSW OF PALIMBANG, PHILIPPINES
#- 1488	11/3	12	16	56.2	26.09	128.42	19	5.4	-	114.03	ESE OF HAEBARU, JAPAN
#- 1489	11/3	12	19	22.2	−17.87	−178.52	564	4.5	-	89.08	SE OF LAMBASA, FIJI
#- 1490	11/3	13	13	25.1	−18.23	−175.84	468	4.5	-	89.26	WNW OF NEIAFU, TONGA
#- 1491	11/3	15	8	36.5	−4.67	145.17	106	4.5	-	91.34	NW OF MADANG, PAPUA NEW GUINEA
#- 1492	11/3	17	10	23.8	−18.56	−175.46	209	5.2	-	89.01	W OF NEIAFU, TONGA
#- 1493	11/3	17	46	45.0	−57.84	−25.71	66	5.5	-	29.33	NNE OF BRISTOL ISLAND, SOUTH SANDWICH ISL.
#- 1494	11/3	21	47	11.0	−19.32	−172.51	10	4.5	-	88.81	ESE OF NEIAFU, TONGA
#- 1495	11/4	1	6	45.5	−37.44	176.56	211	4.6	-	69.04	NNE OF MAKETU, NEW ZEALAND
#- 1496	11/4	12	56	22.7	14.29	93.19	42	4.8	-	91.56	N OF BAMBOO FLAT, INDIA
#- 1497	11/4	15	40	31.1	−3.59	140.35	44	4.9	-	90.68	SSW OF ABEPURA, INDONESIA
#- 1498	11/4	18	52	5.4	21.58	143.10	301	4.5	-	115.12	NORTHERN MARIANA ISLANDS
#- 1499	11/4	19	17	35.3	−42.05	84.77	10	4.6	-	35.81	SOUTHEAST INDIAN RIDGE
#- 1500	11/5	1	47	13.1	−6.04	146.61	59	5.1	-	90.54	NNW OF LAE, PAPUA NEW GUINEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1501	11/5	5	31	17.8	−33.09	−176.86	34	4.5	-	74.54	SE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1502	11/5	9	36	53.8	−32.60	−178.35	10	4.8	-	74.74	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1503	11/5	11	42	34.2	4.15	126.48	78	4.6	-	92.97	SE OF SARANGANI, PHILIPPINES
#- 1504	11/5	14	43	31.9	−20.11	−177.29	495	4.7	-	87.14	ENE OF NDOI ISLAND, FIJI
#- 1505	11/5	17	25	26.0	−35.33	−72.76	32	4.6	-	64.43	W OF CONSTITUCION, CHILE
#- 1506	11/5	17	40	15.8	−57.76	−25.26	64	4.9	-	29.23	NNE OF BRISTOL ISLAND, SOUTH SANDWICH ISL.
#- 1507	11/5	18	17	1.0	−15.22	−174.94	287	5.0	-	92.38	WNW OF HIHIFO, TONGA
#- 1508	11/5	20	47	6.5	1.83	89.66	10	5.1	-	78.62	NORTH INDIAN OCEAN
#- 1509	11/6	1	13	30.2	26.62	128.95	32	5.4	-	114.71	E OF NAGO, JAPAN
#- 1510	11/7	7	14	9.3	−33.03	−178.17	10	4.5	-	74.36	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1511	11/7	10	47	35.6	−1.77	138.78	34	5.2	-	91.83	WNW OF ABEPURA, INDONESIA
#- 1512	11/7	12	47	51.8	−38.69	−73.84	33	4.5	-	61.64	W OF CARAHUE, CHILE
#- 1513	11/7	13	39	23.0	−8.88	29.21	10	4.6	-	60.47	SW OF KAPUTA, ZAMBIA
#- 1514	11/7	16	46	34.7	−22.32	171.54	98	5.7	-	82.50	W OF ILE HUNTER, NEW CALEDONIA
#- 1515	11/7	17	1	6.0	−37.26	−74.33	22	5.0	-	63.11	WNW OF LEBU, CHILE
#- 1516	11/7	17	21	5.7	−16.01	168.51	283	4.6	-	87.79	E OF LAKATORO, VANUATU
#- 1517	11/7	18	38	51.8	4.09	126.31	72	4.7	-	92.86	SSE OF SARANGANI, PHILIPPINES
#- 1518	11/7	20	13	53.8	−6.46	154.89	62	5.4	-	92.88	WSW OF PANGUNA, PAPUA NEW GUINEA
#- 1519	11/8	9	51	1.5	−1.19	67.68	10	5.5	-	70.51	CARLSBERG RIDGE
#- 1520	11/8	12	30	0.6	−31.61	−178.05	9	4.8	-	75.77	ESE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1521	11/8	14	18	16.4	−17.64	−178.67	551	4.5	-	89.27	ESE OF LAMBASA, FIJI
#- 1522	11/8	15	13	12.7	−16.35	−173.83	22	4.8	-	91.49	S OF HIHIFO, TONGA
#- 1523	11/8	18	32	10.9	−6.95	129.57	131	4.7	-	83.72	WNW OF SAUMLAKI, INDONESIA
#- 1524	11/9	0	20	45.8	8.07	137.56	27	5.2	-	100.59	S OF NGULU, MICRONESIA
#- 1525	11/9	3	45	13.9	−12.03	167.12	11	5.5	-	91.24	SE OF LATA, SOLOMON ISLANDS
#- 1526	11/9	6	0	7.0	−56.82	−150.59	10	4.8	-	53.97	PACIFIC-ANTARCTIC RIDGE
#- 1527	11/9	10	58	20.4	−7.00	129.26	153	5.0	-	83.56	WNW OF SAUMLAKI, INDONESIA
#- 1528	11/9	13	26	9.6	−22.01	−68.42	112	4.9	-	75.50	NE OF CALAMA, CHILE
#- 1529	11/9	14	53	26.6	−28.32	−176.77	10	5.5	-	79.22	NE OF RAOUL ISLAND, NEW ZEALAND
#- 1530	11/9	15	2	55.8	−28.60	−176.25	10	4.5	-	79.04	ENE OF RAOUL ISLAND, NEW ZEALAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1531	11/9	22	37	50.4	35.92	139.97	64	5.6	-	127.07	WSW OF MORIYA, JAPAN
#- 1532	11/9	22	58	45.0	−30.03	−177.84	81	4.6	-	77.34	S OF RAOUL ISLAND, NEW ZEALAND
#- 1533	11/9	23	45	30.2	−41.37	−90.37	10	4.6	-	63.49	SOUTHEAST OF EASTER ISLAND
#- 1534	11/10	2	1	58.9	−33.55	−72.03	35	4.6	-	65.87	W OF SAN ANTONIO, CHILE
#- 1535	11/10	9	3	5.2	−56.70	−150.67	10	4.8	-	54.10	PACIFIC-ANTARCTIC RIDGE
#- 1536	11/10	14	23	7.6	−16.13	168.57	294	4.8	-	87.70	E OF LAKATORO, VANUATU
#- 1537	11/10	21	13	49.6	−54.93	−130.57	10	5.6	-	55.83	PACIFIC-ANTARCTIC RIDGE
#- 1538	11/11	2	57	8.8	−15.07	−75.74	41	4.5	-	84.38	WNW OF MINAS DE MARCONA, PERU
#- 1539	11/11	5	15	50.9	−14.94	−75.59	43	4.7	-	84.46	WNW OF MINAS DE MARCONA, PERU
#- 1540	11/11	13	54	6.9	−24.42	179.82	537	4.9	-	82.34	SOUTH OF THE FIJI ISLANDS
#- 1541	11/11	14	0	7.9	1.85	126.57	24	5.0	-	90.85	NW OF KOTA TERNATE, INDONESIA
#- 1542	11/11	19	22	33.1	−4.48	153.55	86	4.9	-	94.33	E OF TARON, PAPUA NEW GUINEA
#- 1543	11/12	7	3	51.1	54.69	162.30	43	6.4	-	151.11	S OF UST'-KAMCHATSK STARYY, RUSSIA
#- 1544	11/12	9	43	11.8	−24.66	179.91	501	4.6	-	82.13	SOUTH OF THE FIJI ISLANDS
#- 1545	11/12	9	55	4.4	−17.75	168.11	35	4.7	-	86.02	W OF PORT-VILA, VANUATU
#- 1546	11/12	9	55	20.5	−6.81	129.71	154	4.6	-	83.90	NW OF SAUMLAKI, INDONESIA
#- 1547	11/12	13	39	52.7	−52.30	16.92	15	4.7	-	19.66	SOUTHWEST OF AFRICA
#- 1548	11/12	15	58	35.8	−6.05	146.29	109	4.9	-	90.43	ENE OF KAINANTU, PAPUA NEW GUINEA
#- 1549	11/12	20	0	20.6	−7.20	156.13	68	5.1	-	92.58	SW OF CHIROVANGA, SOLOMON ISLANDS
#- 1550	11/13	1	51	15.3	2.48	90.10	14	5.0	-	79.37	OFF THE WEST COAST OF NORTHERN SUMATRA
#- 1551	11/13	2	41	40.4	−55.93	−27.89	107	4.5	-	31.56	NNW OF VISOKOI ISLAND,
#- 1552	11/13	3	57	39.9	51.55	−179.00	20	5.8	-	155.05	NNE OF AMATIGNAK ISLAND, ALASKA
#- 1553	11/13	7	25	2.1	−6.25	106.57	141	4.5	-	76.25	NNE OF CURUG, INDONESIA
#- 1554	11/13	7	54	50.2	−46.52	166.24	5	4.5	-	58.11	W OF RIVERTON, NEW ZEALAND
#- 1555	11/13	20	13	4.8	−16.23	−176.05	343	4.6	-	91.18	W OF HIHIFO, TONGA
#- 1556	11/13	23	45	47.9	−60.28	−47.12	11	6.1	-	34.63	SCOTIA SEA
#- 1557	11/14	9	38	58.4	−4.77	118.08	16	4.6	-	81.65	WNW OF MAKASSAR, INDONESIA
#- 1558	11/14	15	2	57.9	−5.70	−78.31	56	4.7	-	94.06	ENE OF CAJARURO, PERU
#- 1559	11/14	20	46	54.0	−9.34	108.85	30	4.6	-	74.13	SSE OF SINDANGSARI, INDONESIA
#- 1560	11/14	23	25	42.4	−8.26	119.77	177	4.6	-	78.98	NNW OF CEMPA, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1561	11/15	0	13	57.2	−14.80	−71.68	123	4.9	-	83.33	SW OF CHECCA, PERU
#- 1562	11/15	2	0	34.0	41.43	142.18	46	5.5	-	132.76	ENE OF MUTSU, JAPAN
#- 1563	11/15	3	35	16.7	51.46	−178.90	25	5.3	-	155.01	NNE OF AMATIGNAK ISLAND, ALASKA
#- 1564	11/15	6	19	12.8	−32.66	−67.48	22	4.9	-	65.27	ENE OF SAN MARTIN, ARGENTINA
#- 1565	11/15	8	8	22.7	−6.67	154.99	35	4.9	-	92.72	SW OF PANGUNA, PAPUA NEW GUINEA
#- 1566	11/15	14	39	16.5	−26.69	−13.82	10	4.8	-	52.21	SOUTHERN MID-ATLANTIC RIDGE
#- 1567	11/15	15	43	8.2	5.39	94.46	48	5.0	-	83.43	W OF BANDA ACEH, INDONESIA
#- 1568	11/16	1	28	41.0	−31.63	−177.83	45	4.5	-	75.79	ESE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1569	11/16	3	34	31.2	−60.26	−47.06	10	6.9	-	34.63	SCOTIA SEA
#- 1570	11/16	3	41	14.0	−60.95	−46.32	10	4.9	-	33.86	SCOTIA SEA
#- 1571	11/16	3	43	11.2	−60.53	−46.44	10	4.7	-	34.23	SCOTIA SEA
#- 1572	11/16	4	34	45.2	−60.33	−46.77	10	4.5	-	34.48	SCOTIA SEA
#- 1573	11/16	4	45	33.0	−60.34	−47.21	10	5.2	-	34.61	SCOTIA SEA
#- 1574	11/16	5	38	49.2	−60.23	−46.68	10	4.5	-	34.53	SCOTIA SEA
#- 1575	11/16	5	54	37.0	39.31	142.10	51	5.0	-	130.86	ENE OF KAMAISHI, JAPAN
#- 1576	11/16	8	18	12.0	−60.31	−46.59	10	5.0	-	34.44	SCOTIA SEA
#- 1577	11/16	8	35	5.4	−60.35	−46.35	10	5.4	-	34.34	SCOTIA SEA
#- 1578	11/16	9	35	46.2	−60.29	−46.43	10	5.5	-	34.40	SCOTIA SEA
#- 1579	11/16	9	51	25.4	−60.36	−46.20	10	4.7	-	34.28	SCOTIA SEA
#- 1580	11/16	10	26	43.3	4.21	90.07	10	5.7	-	81.02	OFF THE WEST COAST OF NORTHERN SUMATRA
#- 1581	11/16	11	44	41.3	35.60	140.15	59	5.5	-	126.86	E OF CHIBA-SHI, JAPAN
#- 1582	11/16	15	0	12.5	−60.35	−46.37	10	5.5	-	34.35	SCOTIA SEA
#- 1583	11/16	15	4	22.0	−60.29	−46.34	10	4.7	-	34.38	SCOTIA SEA
#- 1584	11/17	9	4	55.5	−60.27	−46.40	10	7.7	-	34.41	SCOTIA SEA
#- 1585	11/17	10	9	47.9	−61.02	−45.57	10	4.5	-	33.58	SCOTIA SEA
#- 1586	11/17	10	12	19.7	−60.33	−43.88	10	4.5	-	33.57	SCOTIA SEA
#- 1587	11/17	10	18	36.5	−60.38	−45.83	18	4.5	-	34.15	SCOTIA SEA
#- 1588	11/17	10	26	42.4	−60.31	−44.02	10	4.6	-	33.63	SCOTIA SEA
#- 1589	11/17	10	39	38.1	−60.30	−46.93	10	4.6	-	34.56	SCOTIA SEA
#- 1590	11/17	10	44	6.6	−60.42	−44.81	10	5.2	-	33.80	SCOTIA SEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1591	11/17	10	48	50.6	−60.27	−43.90	10	4.9	-	33.63	SCOTIA SEA
#- 1592	11/17	10	55	11.5	−60.09	−45.68	15	4.5	-	34.33	SCOTIA SEA
#- 1593	11/17	10	59	8.3	−60.34	−43.10	10	4.8	-	33.31	SCOTIA SEA
#- 1594	11/17	11	12	12.5	−60.43	−43.52	10	4.9	-	33.38	SCOTIA SEA
#- 1595	11/17	11	13	1.7	−60.30	−46.70	10	5.2	-	34.49	SCOTIA SEA
#- 1596	11/17	11	14	57.4	−60.60	−46.41	10	4.6	-	34.17	SCOTIA SEA
#- 1597	11/17	11	21	47.9	−60.67	−45.33	13	4.5	-	33.77	SCOTIA SEA
#- 1598	11/17	11	34	16.3	−60.34	−45.07	10	4.6	-	33.94	SCOTIA SEA
#- 1599	11/17	11	35	29.8	−60.25	−45.81	10	4.7	-	34.25	SCOTIA SEA
#- 1600	11/17	11	38	59.4	−60.34	−44.93	15	4.9	-	33.90	SCOTIA SEA
#- 1601	11/17	11	41	48.3	−60.35	−45.10	10	4.7	-	33.95	SCOTIA SEA
#- 1602	11/17	12	11	36.1	−60.53	−44.38	10	5.7	-	33.58	SCOTIA SEA
#- 1603	11/17	12	27	48.9	−16.02	−75.28	34	4.7	-	83.34	SSW OF MINAS DE MARCONA, PERU
#- 1604	11/17	12	45	24.9	−60.40	−45.23	10	5.2	-	33.94	SCOTIA SEA
#- 1605	11/17	13	11	12.7	−60.26	−45.11	15	4.7	-	34.02	SCOTIA SEA
#- 1606	11/17	13	36	38.6	−6.84	129.54	176	4.6	-	83.80	WNW OF SAUMLAKI, INDONESIA
#- 1607	11/17	13	42	44.6	−60.36	−45.05	15	5.0	-	33.92	SCOTIA SEA
#- 1608	11/17	14	24	50.5	−60.44	−45.05	16	4.9	-	33.86	SCOTIA SEA
#- 1609	11/17	14	46	3.5	−60.51	−43.61	14	4.7	-	33.35	SCOTIA SEA
#- 1610	11/17	14	51	27.8	−4.93	144.67	79	4.9	-	90.93	NNE OF MOUNT HAGEN, PAPUA NEW GUINEA
#- 1611	11/17	14	59	12.6	−60.41	−42.86	15	5.0	-	33.19	SCOTIA SEA
#- 1612	11/17	15	2	33.3	−57.23	−150.76	15	4.5	-	53.56	PACIFIC-ANTARCTIC RIDGE
#- 1613	11/17	15	24	32.1	−60.27	−45.75	15	4.7	-	34.21	SCOTIA SEA
#- 1614	11/17	15	25	25.5	−60.10	−42.30	15	4.7	-	33.25	SCOTIA SEA
#- 1615	11/17	15	34	24.1	−60.43	−42.98	14	4.5	-	33.21	SCOTIA SEA
#- 1616	11/17	16	2	12.1	−60.32	−43.43	15	4.8	-	33.44	SCOTIA SEA
#- 1617	11/17	17	12	34.4	0.46	119.78	7	4.5	-	87.14	SW OF OGOTUA, INDONESIA
#- 1618	11/17	17	37	14.1	−10.33	−11.83	10	5.5	-	67.05	ASCENSION ISLAND REGION
#- 1619	11/17	21	45	32.4	−60.34	−46.66	10	4.6	-	34.45	SCOTIA SEA
#- 1620	11/18	2	11	7.1	−60.38	−43.68	18	4.9	-	33.47	SCOTIA SEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1621	11/18	3	52	19.6	−60.64	−42.44	16	4.9	-	32.88	SCOTIA SEA
#- 1622	11/18	4	28	44.2	−60.52	−43.08	10	5.0	-	33.17	SCOTIA SEA
#- 1623	11/18	5	18	33.2	−32.77	−178.50	10	4.5	-	74.55	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1624	11/18	5	41	43.3	−60.49	−43.42	16	5.2	-	33.31	SCOTIA SEA
#- 1625	11/18	7	7	36.5	−60.57	−42.69	14	5.1	-	33.01	SCOTIA SEA
#- 1626	11/18	7	33	57.2	−7.40	128.48	139	4.7	-	82.91	KEPULAUAN BARAT DAYA, INDONESIA
#- 1627	11/18	12	43	21.0	−60.31	−43.91	10	4.8	-	33.60	SCOTIA SEA
#- 1628	11/18	13	45	12.7	−24.34	179.98	514	4.6	-	82.46	SOUTH OF THE FIJI ISLANDS
#- 1629	11/18	15	53	1.7	−60.26	−45.00	15	5.0	-	33.98	SCOTIA SEA
#- 1630	11/18	19	10	45.4	34.33	137.05	328	5.6	-	124.61	SE OF TOBA, JAPAN
#- 1631	11/18	21	31	9.5	−10.06	123.76	29	5.4	-	78.73	ENE OF KUPANG, INDONESIA
#- 1632	11/18	22	23	28.4	−30.36	−179.71	335	5.1	-	76.66	NNW OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1633	11/19	6	32	3.7	−10.74	165.54	50	4.5	-	92.03	W OF LATA, SOLOMON ISLANDS
#- 1634	11/19	9	20	55.7	−55.15	−28.41	35	4.6	-	32.35	NNW OF VISOKOI ISLAND,
#- 1635	11/19	13	32	51.2	2.64	128.43	38	6.0	-	92.26	NNE OF TOBELO, INDONESIA
#- 1636	11/19	15	16	48.0	8.91	138.53	10	5.9	-	101.73	SSE OF YAP, MICRONESIA
#- 1637	11/19	15	49	47.6	−55.91	−25.87	52	4.8	-	30.86	NE OF VISOKOI ISLAND,
#- 1638	11/19	16	3	36.2	−55.97	−25.92	52	4.5	-	30.83	NE OF VISOKOI ISLAND,
#- 1639	11/19	16	10	4.9	−55.92	−25.91	51	4.9	-	30.87	NE OF VISOKOI ISLAND,
#- 1640	11/19	17	0	44.2	18.48	145.20	511	6.0	-	112.99	WSW OF AGRIHAN, NORTHERN MARIANA ISLANDS
#- 1641	11/19	22	13	1.5	−63.12	−164.59	10	4.9	-	46.82	PACIFIC-ANTARCTIC RIDGE
#- 1642	11/19	23	2	5.1	−63.10	−165.11	10	4.6	-	46.78	PACIFIC-ANTARCTIC RIDGE
#- 1643	11/19	23	18	0.5	−63.29	−164.94	10	5.7	-	46.61	PACIFIC-ANTARCTIC RIDGE
#- 1644	11/20	3	45	32.6	−63.27	−164.68	16	4.8	-	46.66	PACIFIC-ANTARCTIC RIDGE
#- 1645	11/20	3	57	4.0	−56.86	−150.70	10	5.1	-	53.93	PACIFIC-ANTARCTIC RIDGE
#- 1646	11/20	4	10	6.8	−32.86	−178.79	46	4.7	-	74.40	S OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1647	11/20	5	32	33.3	−60.46	−43.27	10	4.8	-	33.28	SCOTIA SEA
#- 1648	11/20	5	44	50.5	−60.36	−47.11	10	4.9	-	34.56	SCOTIA SEA
#- 1649	11/20	10	9	18.4	12.40	95.15	10	5.5	-	90.32	ENE OF PORT BLAIR, INDIA
#- 1650	11/20	12	59	44.5	−62.91	−164.12	10	4.6	-	47.07	PACIFIC-ANTARCTIC RIDGE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1651	11/20	14	1	31.9	−60.29	−47.39	10	4.8	-	34.71	SCOTIA SEA
#- 1652	11/20	15	54	46.3	−55.36	−26.78	46	4.8	-	31.61	N OF VISOKOI ISLAND,
#- 1653	11/20	17	7	19.6	−6.73	129.01	183	4.6	-	83.72	WNW OF SAUMLAKI, INDONESIA
#- 1654	11/20	18	44	19.1	−3.95	133.65	29	4.8	-	87.97	NNW OF DOBO, INDONESIA
#- 1655	11/21	0	13	20.5	−24.28	−67.08	152	4.5	-	72.94	W OF SAN ANTONIO DE LOS COBRES, ARGENTINA
#- 1656	11/22	4	53	44.5	−24.20	179.05	532	4.6	-	82.40	SOUTH OF THE FIJI ISLANDS
#- 1657	11/22	5	37	18.1	−0.19	122.95	93	5.2	-	87.65	SSW OF BILUNGALA, INDONESIA
#- 1658	11/22	6	51	25.1	34.46	45.48	6	5.6	-	103.58	W OF SARPOL-E ZAHAB, IRAN
#- 1659	11/22	6	53	38.5	−8.61	118.37	159	4.6	-	78.16	SE OF NPONGGE, INDONESIA
#- 1660	11/22	15	6	3.6	−57.68	−25.27	23	5.3	-	29.29	SE OF VISOKOI ISLAND,
#- 1661	11/22	15	27	42.7	−5.11	153.91	124	5.2	-	93.85	SE OF TARON, PAPUA NEW GUINEA
#- 1662	11/22	17	20	58.3	5.42	92.82	16	5.5	-	82.97	W OF BANDA ACEH, INDONESIA
#- 1663	11/22	18	30	58.0	34.31	45.61	14	5.8	-	103.43	SW OF SARPOL-E ZAHAB, IRAN
#- 1664	11/22	19	22	4.1	−6.09	154.53	69	4.6	-	93.12	WNW OF PANGUNA, PAPUA NEW GUINEA
#- 1665	11/22	22	4	25.4	44.60	124.17	10	5.3	-	129.35	NNE OF CHANGLING, CHINA
#- 1666	11/23	3	2	51.4	−24.35	−115.94	10	4.5	-	84.88	SOUTHERN EAST PACIFIC RISE
#- 1667	11/23	7	48	32.1	−17.12	−176.54	371	6.5	-	90.21	FIJI REGION
#- 1668	11/23	8	14	36.8	−10.86	113.78	35	4.5	-	74.43	S OF SIDORUKUN, INDONESIA
#- 1669	11/23	9	7	29.0	−0.07	26.36	10	4.5	-	69.47	DEMOCRATIC REPUBLIC OF THE CONGO
#- 1670	11/23	9	36	47.0	−35.42	−178.91	10	4.8	-	71.89	EAST OF THE NORTH ISLAND OF NEW ZEALAND
#- 1671	11/23	21	5	20.6	−20.10	−173.33	31	4.6	-	87.90	ESE OF PANGAI, TONGA
#- 1672	11/23	21	58	38.4	−60.17	−44.92	18	4.9	-	34.02	SCOTIA SEA
#- 1673	11/23	23	26	20.6	34.23	45.66	10	5.2	-	103.36	SW OF SARPOL-E ZAHAB, IRAN
#- 1674	11/24	8	47	49.3	−24.42	179.26	531	5.3	-	82.23	SOUTH OF THE FIJI ISLANDS
#- 1675	11/24	10	20	28.4	52.09	142.17	12	5.0	-	141.88	ESE OF LAZAREV, RUSSIA
#- 1676	11/24	11	9	59.3	−21.68	−179.32	596	5.1	-	85.19	SSW OF NDOI ISLAND, FIJI
#- 1677	11/24	14	14	55.0	−10.17	161.00	53	5.0	-	91.25	WNW OF KIRAKIRA, SOLOMON ISLANDS
#- 1678	11/24	16	6	22.4	55.58	161.61	71	5.0	-	151.55	SW OF UST'-KAMCHATSK STARYY, RUSSIA
#- 1679	11/24	18	3	13.0	34.14	45.63	11	5.0	-	103.27	SSW OF SARPOL-E ZAHAB, IRAN
#- 1680	11/24	19	58	16.3	−7.20	108.36	168	4.8	-	75.98	S OF DESA WETAN CIAKAR, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1681	11/24	20	49	38.7	40.82	31.87	6	5.1	-	109.96	WNW OF YENICAGA, TURKEY
#- 1682	11/24	22	4	12.7	−25.47	70.00	10	5.1	-	47.25	INDIAN OCEAN TRIPLE JUNCTION
#- 1683	11/24	22	7	15.1	−25.57	70.14	10	4.5	-	47.19	MID-INDIAN RIDGE
#- 1684	11/24	22	50	23.4	−31.73	−179.46	206	4.5	-	75.37	WSW OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1685	11/25	0	40	42.4	−7.87	107.93	71	4.8	-	75.20	SSW OF CIHERAS, INDONESIA
#- 1686	11/25	3	0	55.4	−52.36	13.22	10	4.5	-	20.56	SOUTHWEST OF AFRICA
#- 1687	11/25	3	23	54.5	45.87	141.73	20	5.1	-	136.47	N OF WAKKANAI, JAPAN
#- 1688	11/25	5	10	7.8	−54.34	−55.33	12	5.4	-	42.03	FALKLAND ISLANDS REGION
#- 1689	11/25	5	56	50.1	45.56	151.00	34	6.0	-	139.51	E OF KURIL'SK, RUSSIA
#- 1690	11/25	6	27	9.0	−54.03	−54.98	10	5.6	-	42.19	SOUTH ATLANTIC OCEAN
#- 1691	11/25	7	21	18.4	−53.87	−53.91	15	6.0	-	41.98	SOUTH ATLANTIC OCEAN
#- 1692	11/25	7	56	8.9	−54.30	−55.25	10	4.6	-	42.04	FALKLAND ISLANDS REGION
#- 1693	11/25	10	37	55.5	−53.88	−54.61	10	4.6	-	42.19	SOUTH ATLANTIC OCEAN
#- 1694	11/25	19	43	1.1	−3.17	−79.89	85	5.0	-	96.96	NE OF MACHALA, ECUADOR
#- 1695	11/25	20	6	55.6	−12.60	−76.20	77	5.5	-	86.86	NNE OF QUILMANA, PERU
#- 1696	11/25	20	58	43.5	−25.39	70.06	10	4.7	-	47.35	MID-INDIAN RIDGE
#- 1697	11/25	21	26	35.2	−25.32	70.07	10	4.6	-	47.41	MID-INDIAN RIDGE
#- 1698	11/25	22	7	24.6	−25.20	70.22	10	4.6	-	47.56	MID-INDIAN RIDGE
#- 1699	11/25	23	37	4.0	−14.57	166.91	59	4.8	-	88.74	NNW OF PORT-OLRY, VANUATU
#- 1700	11/26	0	24	21.4	−23.44	−179.73	554	4.5	-	83.40	SOUTH OF THE FIJI ISLANDS
#- 1701	11/26	2	42	30.8	−42.49	−16.02	15	4.7	-	38.55	SOUTHERN MID-ATLANTIC RIDGE
#- 1702	11/26	8	11	25.4	51.52	−174.43	42	5.0	-	156.47	SSW OF ATKA, ALASKA
#- 1703	11/26	14	30	28.4	−5.83	150.76	61	5.5	-	92.14	ESE OF KIMBE, PAPUA NEW GUINEA
#- 1704	11/26	16	59	47.8	−60.32	−45.31	16	4.7	-	34.03	SCOTIA SEA
#- 1705	11/27	2	39	28.9	−5.85	150.79	78	4.8	-	92.12	ESE OF KIMBE, PAPUA NEW GUINEA
#- 1706	11/27	4	15	11.5	−6.29	148.02	64	4.8	-	90.78	NNE OF FINSCHHAFEN, PAPUA NEW GUINEA
#- 1707	11/27	14	20	43.6	−25.31	69.93	16	4.8	-	47.39	INDIAN OCEAN TRIPLE JUNCTION
#- 1708	11/27	20	30	50.0	−18.53	−69.71	81	4.8	-	79.18	SSW OF PUTRE, CHILE
#- 1709	11/27	20	30	55.6	−6.32	130.15	122	4.6	-	84.51	NW OF SAUMLAKI, INDONESIA
#- 1710	11/28	6	59	37.4	−55.42	−29.77	38	4.9	-	32.62	NW OF VISOKOI ISLAND,

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1711	11/28	13	51	34.0	29.32	51.31	8	5.8	-	98.74	ENE OF BORAZJAN, IRAN
#- 1712	11/28	15	44	4.7	−25.32	69.90	16	5.1	-	47.38	INDIAN OCEAN TRIPLE JUNCTION
#- 1713	11/28	16	2	54.1	0.26	98.56	51	5.1	-	79.79	SSW OF PADANGSIDEMPUAN, INDONESIA
#- 1714	11/28	16	39	10.8	−12.26	166.87	221	5.1	-	90.95	NNW OF SOLA, VANUATU
#- 1715	11/29	5	21	29.4	−33.38	−72.27	8	4.9	-	66.10	WNW OF SAN ANTONIO, CHILE
#- 1716	11/29	10	42	20.7	−60.29	−45.16	13	4.7	-	34.01	SCOTIA SEA
#- 1717	11/29	11	53	1.0	−26.71	−176.20	10	5.2	-	80.90	SOUTH OF THE FIJI ISLANDS
#- 1718	11/29	12	5	18.8	−26.68	−176.07	10	5.0	-	80.95	SOUTH OF THE FIJI ISLANDS
#- 1719	11/29	14	4	34.2	−34.11	−73.24	17	4.6	-	65.71	NNW OF CONSTITUCION, CHILE
#- 1720	11/29	14	5	24.3	−26.46	−176.28	10	4.6	-	81.13	SOUTH OF THE FIJI ISLANDS
#- 1721	11/29	15	2	17.4	−14.52	−176.11	10	4.7	-	92.84	S OF MATA-UTU, WALLIS AND FUTUNA
#- 1722	11/29	18	7	54.9	−60.42	−44.76	16	4.5	-	33.78	SCOTIA SEA
#- 1723	11/29	19	0	18.0	−28.67	−178.03	138	4.8	-	78.63	N OF RAOUL ISLAND, NEW ZEALAND
#- 1724	11/30	3	33	7.6	−30.68	−178.28	32	4.5	-	76.63	NE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1725	11/30	11	54	11.3	−26.66	−176.32	22	4.9	-	80.93	SOUTH OF THE FIJI ISLANDS
#- 1726	11/30	19	20	15.2	−1.06	26.85	5	5.3	-	68.45	DEMOCRATIC REPUBLIC OF THE CONGO
#- 1727	12/1	1	13	52.8	−56.60	−25.45	32	5.0	-	30.18	E OF VISOKOI ISLAND,
#- 1728	12/1	1	24	13.5	−7.03	128.38	10	6.4	-	83.22	KEPULAUAN BARAT DAYA, INDONESIA
#- 1729	12/1	1	34	34.9	−6.92	128.95	10	4.5	-	83.52	WNW OF SAUMLAKI, INDONESIA
#- 1730	12/1	1	57	1.6	−56.66	−25.50	49	4.6	-	30.15	E OF VISOKOI ISLAND,
#- 1731	12/1	2	47	12.4	−4.54	152.41	123	4.5	-	93.90	SE OF KOKOPO, PAPUA NEW GUINEA
#- 1732	12/1	3	19	38.1	41.68	−126.88	10	5.5	-	151.68	WSW OF GOLD BEACH, OREGON
#- 1733	12/1	5	9	31.4	−20.19	170.11	10	4.8	-	84.19	SE OF ISANGEL, VANUATU
#- 1734	12/1	6	14	38.6	−7.25	128.86	102	4.5	-	83.18	WNW OF SAUMLAKI, INDONESIA
#- 1735	12/1	6	29	57.8	2.04	96.83	20	6.0	-	80.95	SE OF SINABANG, INDONESIA
#- 1736	12/1	7	17	15.2	−27.78	−66.65	144	4.6	-	69.54	WSW OF ANDALGALA, ARGENTINA
#- 1737	12/1	8	14	2.1	−0.96	26.79	10	4.9	-	68.55	DEMOCRATIC REPUBLIC OF THE CONGO
#- 1738	12/1	10	1	31.7	−17.56	−178.29	534	5.4	-	89.43	ESE OF LAMBASA, FIJI
#- 1739	12/1	10	12	37.6	−53.92	140.59	10	4.6	-	44.59	WEST OF MACQUARIE ISLAND
#- 1740	12/1	20	14	8.9	−30.81	−178.15	32	4.8	-	76.53	NE OF L'ESPERANCE ROCK, NEW ZEALAND

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1741	12/2	0	59	55.6	−19.17	−177.36	566	4.6	-	88.05	NE OF NDOI ISLAND, FIJI
#- 1742	12/2	2	14	56.9	−21.28	170.32	110	5.6	-	83.19	NW OF ILE HUNTER, NEW CALEDONIA
#- 1743	12/2	7	34	55.9	2.03	96.68	18	5.4	-	80.89	SSE OF SINABANG, INDONESIA
#- 1744	12/2	12	18	48.2	−53.31	25.50	10	5.5	-	16.90	SOUTH OF AFRICA
#- 1745	12/2	13	25	20.2	−8.29	121.39	200	4.9	-	79.53	NE OF NANGANUMBA, INDONESIA
#- 1746	12/2	14	53	33.5	−24.10	−66.62	187	4.5	-	72.96	WNW OF SAN ANTONIO DE LOS COBRES, ARGENTINA
#- 1747	12/2	19	18	6.2	−24.93	28.61	5	4.8	-	44.52	E OF WARMBATHS, SOUTH AFRICA
#- 1748	12/3	7	38	53.0	−5.55	153.39	35	4.5	-	93.26	SSE OF TARON, PAPUA NEW GUINEA
#- 1749	12/3	9	16	43.6	36.49	141.71	18	5.1	-	128.21	ESE OF KITAIBARAKI, JAPAN
#- 1750	12/3	15	36	37.5	3.73	126.61	52	5.1	-	92.63	SE OF SARANGANI, PHILIPPINES
#- 1751	12/3	21	5	26.0	−30.21	−179.48	411	4.6	-	76.85	NNW OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1752	12/3	23	58	49.9	6.62	126.17	30	5.6	-	95.17	E OF TIBANBANG, PHILIPPINES
#- 1753	12/4	0	48	9.1	2.45	128.48	53	4.7	-	92.10	NNE OF TOBELO, INDONESIA
#- 1754	12/4	1	4	38.7	−6.82	127.95	309	4.5	-	83.26	BANDA SEA
#- 1755	12/4	3	59	16.7	13.83	92.95	32	4.7	-	91.06	N OF BAMBOO FLAT, INDIA
#- 1756	12/4	5	39	33.0	−24.58	−69.30	72	5.2	-	73.38	NE OF TALTAL, CHILE
#- 1757	12/4	14	10	9.3	−29.97	−176.11	11	5.0	-	77.72	ESE OF RAOUL ISLAND, NEW ZEALAND
#- 1758	12/4	14	55	40.3	−25.45	178.25	574	5.7	-	81.02	SOUTH OF THE FIJI ISLANDS
#- 1759	12/4	17	43	24.4	0.02	123.55	137	5.2	-	88.07	SE OF BILUNGALA, INDONESIA
#- 1760	12/4	19	5	55.2	−59.15	−17.17	9	4.7	-	25.34	EAST OF THE SOUTH SANDWICH ISLANDS
#- 1761	12/6	0	59	19.1	−19.15	168.93	160	4.8	-	84.89	NW OF ISANGEL, VANUATU
#- 1762	12/6	3	6	40.6	−23.50	−179.80	520	4.6	-	83.32	SOUTH OF THE FIJI ISLANDS
#- 1763	12/6	3	19	23.0	−32.22	−71.89	35	4.6	-	67.06	WNW OF LA LIGUA, CHILE
#- 1764	12/6	9	50	7.8	−31.64	−68.96	109	4.7	-	66.69	WSW OF ZONDA, ARGENTINA
#- 1765	12/6	10	24	2.9	40.07	69.92	24	5.0	-	111.45	SE OF CHKALOVSK, TAJIKISTAN
#- 1766	12/6	18	49	36.8	−0.57	96.25	30	4.9	-	78.28	SOUTHWEST OF SUMATRA, INDONESIA
#- 1767	12/6	21	0	42.0	−30.52	−71.98	2	4.6	-	68.68	W OF OVALLE, CHILE
#- 1768	12/6	22	4	13.1	−23.32	170.52	10	4.9	-	81.28	WSW OF ILE HUNTER, NEW CALEDONIA
#- 1769	12/6	23	54	3.0	0.96	127.39	6	5.0	-	90.32	N OF TERNATE, INDONESIA
#- 1770	12/7	1	6	38.9	11.44	93.75	154	4.6	-	89.00	ESE OF PORT BLAIR, INDIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1771	12/7	7	36	27.0	56.75	−155.07	52	5.4	-	166.24	NNE OF CHIRIKOF ISLAND, ALASKA
#- 1772	12/7	8	25	38.9	−60.44	−42.50	7	4.8	-	33.05	SCOTIA SEA
#- 1773	12/7	8	33	43.1	−20.29	−177.59	517	4.5	-	86.90	ENE OF NDOI ISLAND, FIJI
#- 1774	12/7	8	59	31.0	−33.93	−72.33	17	4.8	-	65.61	WSW OF SAN ANTONIO, CHILE
#- 1775	12/7	9	16	33.8	−31.96	57.25	10	4.6	-	38.48	SOUTHWEST INDIAN RIDGE
#- 1776	12/7	9	23	49.0	−33.92	−72.55	45	5.0	-	65.69	WSW OF SAN ANTONIO, CHILE
#- 1777	12/7	16	44	9.0	55.19	−157.83	11	5.2	-	164.21	ENE OF CHERNABURA ISLAND, ALASKA
#- 1778	12/8	1	53	45.6	−15.54	167.53	116	5.4	-	87.98	E OF LUGANVILLE, VANUATU
#- 1779	12/8	6	1	7.2	−23.09	−176.95	109	4.5	-	84.30	SW OF VAINI, TONGA
#- 1780	12/8	7	9	55.3	−15.88	167.05	35	4.5	-	87.53	SSW OF LUGANVILLE, VANUATU
#- 1781	12/8	11	26	9.3	−18.83	−174.67	95	4.9	-	88.90	WSW OF NEIAFU, TONGA
#- 1782	12/8	11	43	15.0	−7.46	123.20	550	4.9	-	80.95	NNE OF PALUE, INDONESIA
#- 1783	12/8	14	1	23.7	−28.60	−66.96	128	4.7	-	68.87	W OF ARAUCO, ARGENTINA
#- 1784	12/8	17	1	59.0	−19.60	−70.09	77	4.8	-	78.30	N OF IQUIQUE, CHILE
#- 1785	12/8	17	24	54.2	44.44	149.17	28	6.0	-	137.89	SE OF KURIL'SK, RUSSIA
#- 1786	12/8	20	56	27.9	−22.41	170.49	54	4.6	-	82.15	W OF ILE HUNTER, NEW CALEDONIA
#- 1787	12/9	0	3	20.3	−15.58	−173.27	92	5.1	-	92.35	NE OF HIHIFO, TONGA
#- 1788	12/9	7	39	37.9	9.61	93.00	35	4.9	-	87.03	N OF MOHEAN, INDIA
#- 1789	12/9	8	47	24.0	2.74	128.40	35	5.2	-	92.34	NNE OF TOBELO, INDONESIA
#- 1790	12/9	9	0	41.2	−60.91	−22.95	10	5.1	-	26.14	SOUTH SANDWICH ISLANDS
#- 1791	12/9	15	27	5.0	9.63	122.17	66	4.5	-	96.56	WSW OF MARICALOM, PHILIPPINES
#- 1792	12/9	20	36	49.7	36.42	141.92	26	5.1	-	128.22	ESE OF KITAIBARAKI, JAPAN
#- 1793	12/9	23	56	54.9	−0.04	122.80	231	4.5	-	87.74	SW OF BILUNGALA, INDONESIA
#- 1794	12/10	0	51	27.9	−31.39	−69.30	113	5.3	-	67.03	SE OF CALINGASTA, ARGENTINA
#- 1795	12/10	1	27	32.6	23.07	143.07	89	5.1	-	116.48	SE OF IWO JIMA, JAPAN
#- 1796	12/10	4	27	13.3	−5.73	102.00	12	5.3	-	75.22	WSW OF KURIPAN, INDONESIA
#- 1797	12/10	6	38	11.6	−61.47	153.63	10	4.9	-	41.50	BALLENY ISLANDS REGION
#- 1798	12/10	21	31	26.1	−31.00	−178.08	35	4.5	-	76.36	ENE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1799	12/10	21	39	5.7	−30.95	−178.52	113	4.8	-	76.32	NE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1800	12/11	0	46	49.0	19.50	−109.06	10	5.4	-	126.74	ENE OF SOCORRO ISLAND, MEXICO

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1801	12/11	7	11	45.0	−12.29	167.14	257	5.4	-	91.00	NNW OF SOLA, VANUATU
#- 1802	12/11	13	15	53.2	−37.49	177.87	111	4.5	-	69.25	NE OF OPOTIKI, NEW ZEALAND
#- 1803	12/11	14	50	20.8	−10.17	124.53	22	4.5	-	78.91	SE OF SOE, INDONESIA
#- 1804	12/11	18	23	2.3	−10.10	107.12	37	4.9	-	72.83	ENE OF FLYING FISH COVE, CHRISTMAS ISLAND
#- 1805	12/11	23	23	37.0	−24.00	−70.12	48	4.7	-	74.19	SE OF ANTOFAGASTA, CHILE
#- 1806	12/12	9	46	29.7	−24.70	−64.51	49	4.8	-	71.70	W OF LAS LAJITAS, ARGENTINA
#- 1807	12/12	22	52	18.7	45.28	148.18	22	5.2	-	138.26	ENE OF KURIL'SK, RUSSIA
#- 1808	12/13	1	16	51.6	−7.27	108.56	136	4.5	-	75.98	WSW OF MARGAMULYA, INDONESIA
#- 1809	12/13	1	54	12.9	−17.67	−177.00	361	4.5	-	89.58	FIJI REGION
#- 1810	12/13	4	28	51.7	−0.95	121.37	48	5.1	-	86.38	NE OF POSO, INDONESIA
#- 1811	12/13	4	45	11.5	13.13	−89.09	68	5.6	-	115.30	S OF EL ROSARIO, EL SALVADOR
#- 1812	12/13	20	35	43.6	−6.25	130.41	134	4.9	-	84.67	NNW OF SAUMLAKI, INDONESIA
#- 1813	12/14	1	41	16.5	−2.83	−80.59	56	5.0	-	97.50	SW OF PLAYAS, ECUADOR
#- 1814	12/14	4	6	15.3	35.65	140.65	42	5.5	-	127.08	S OF ASAHI, JAPAN
#- 1815	12/14	14	19	29.9	−41.37	−86.96	10	5.1	-	62.67	WEST CHILE RISE
#- 1816	12/15	1	14	35.6	−20.47	−178.18	578	4.5	-	86.61	ENE OF NDOI ISLAND, FIJI
#- 1817	12/15	3	7	11.9	53.79	160.47	74	5.0	-	149.74	NE OF PETROPAVLOVSK-KAMCHATSKIY, RUSSIA
#- 1818	12/15	8	1	1.0	−30.77	−71.39	35	4.7	-	68.26	SW OF OVALLE, CHILE
#- 1819	12/15	12	55	16.7	−7.28	−76.76	62	5.2	-	92.08	ENE OF HUICUNGO, PERU
#- 1820	12/15	22	17	24.2	−17.21	168.44	221	4.9	-	86.62	NNE OF PORT-VILA, VANUATU
#- 1821	12/16	4	11	46.5	−58.69	149.35	7	5.5	-	42.87	WEST OF MACQUARIE ISLAND
#- 1822	12/16	4	57	13.9	−12.85	169.49	654	4.6	-	91.09	ENE OF SOLA, VANUATU
#- 1823	12/16	5	4	54.4	31.07	110.41	18	5.1	-	112.58	ENE OF XINLING, CHINA
#- 1824	12/16	6	31	45.4	−20.36	−178.00	538	4.8	-	86.75	ENE OF NDOI ISLAND, FIJI
#- 1825	12/16	9	3	11.1	−6.80	102.58	34	5.0	-	74.40	SW OF BIHA, INDONESIA
#- 1826	12/16	12	7	24.8	−46.08	165.99	11	5.8	-	58.46	WSW OF TE ANAU, NEW ZEALAND
#- 1827	12/16	12	28	31.9	−47.18	−13.39	10	5.2	-	33.55	SOUTHERN MID-ATLANTIC RIDGE
#- 1828	12/16	20	27	24.3	−32.54	−178.05	8	4.7	-	74.85	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1829	12/16	22	4	7.0	−55.58	−32.50	14	5.2	-	33.45	SOUTH GEORGIA AND THE SOUTH SANDWICH ISL.
#- 1830	12/17	12	30	0.0	−25.51	−70.52	72	5.5	-	72.90	SSW OF TALTAL, CHILE

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1831	12/17	13	49	36.3	75.82	7.02	10	5.1	-	146.17	GREENLAND SEA
#- 1832	12/17	17	2	1.8	−20.71	−178.66	602	5.7	-	86.28	SSE OF NDOI ISLAND, FIJI
#- 1833	12/17	22	43	13.8	3.41	126.92	35	5.0	-	92.44	NNW OF TOBELO, INDONESIA
#- 1834	12/17	23	22	42.0	−32.47	−178.26	10	4.7	-	74.89	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1835	12/17	23	38	6.8	20.77	146.79	9	6.2	-	115.68	E OF FARALLON DE PAJAROS, NORTHERN MARIANA ISL.
#- 1836	12/18	3	15	15.4	−11.12	165.98	13	4.9	-	91.80	SSE OF LATA, SOLOMON ISLANDS
#- 1837	12/18	7	51	8.7	−33.25	−179.13	37	4.6	-	73.96	S OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1838	12/18	8	10	11.1	−49.16	123.45	10	4.5	-	43.20	WESTERN INDIAN-ANTARCTIC RIDGE
#- 1839	12/18	8	22	40.5	75.85	7.19	14	5.3	-	146.19	GREENLAND SEA
#- 1840	12/18	10	1	13.4	48.81	154.96	33	5.2	-	143.69	SSW OF SEVERO-KURIL'SK, RUSSIA
#- 1841	12/18	12	54	38.3	30.16	138.64	431	5.2	-	121.39	IZU ISLANDS, JAPAN REGION
#- 1842	12/18	15	18	25.0	−6.89	128.33	10	5.0	-	83.33	BANDA SEA
#- 1843	12/18	16	41	33.9	−22.17	−174.26	54	4.8	-	85.70	SE OF `OHONUA, TONGA
#- 1844	12/19	1	13	26.0	−28.56	−177.07	35	4.8	-	78.93	NE OF RAOUL ISLAND, NEW ZEALAND
#- 1845	12/19	4	39	52.9	−23.98	−177.09	65	4.7	-	83.39	SOUTH OF THE FIJI ISLANDS
#- 1846	12/19	16	55	53.0	−19.26	−172.69	8	5.1	-	88.85	ESE OF NEIAFU, TONGA
#- 1847	12/19	18	58	47.3	−9.47	−79.34	38	4.8	-	90.81	SW OF PUERTO SANTA, PERU
#- 1848	12/19	19	28	40.9	27.52	67.45	10	5.4	-	98.74	WNW OF WARAH, PAKISTAN
#- 1849	12/19	21	34	12.6	−6.91	128.32	11	5.7	-	83.31	BANDA SEA
#- 1850	12/19	22	0	19.2	−9.86	118.01	69	4.5	-	76.87	WSW OF DINJO, INDONESIA
#- 1851	12/19	22	34	25.7	−2.53	140.39	26	4.6	-	91.69	WNW OF ABEPURA, INDONESIA
#- 1852	12/20	11	58	59.9	−24.02	169.28	19	5.2	-	80.30	SE OF VAO, NEW CALEDONIA
#- 1853	12/20	13	29	41.2	43.41	137.85	264	4.5	-	55.42	SE OF KAMENKA, RUSSIA
#- 1854	12/20	16	10	46.9	35.87	140.06	73	5.3	-	127.07	SSW OF TORIDE, JAPAN
#- 1855	12/20	16	18	1.1	4.17	96.53	109	4.5	-	82.88	E OF MEULABOH, INDONESIA
#- 1856	12/20	18	46	38.4	0.43	125.35	53	5.3	-	89.10	SSE OF TONDANO, INDONESIA
#- 1857	12/20	21	10	47.4	4.24	96.23	90	5.1	-	82.86	NE OF MEULABOH, INDONESIA
#- 1858	12/20	23	38	55.0	−56.45	−27.45	96	4.6	-	31.00	NNW OF VISOKOI ISLAND,
#- 1859	12/21	2	40	43.2	−3.30	135.62	38	4.5	-	89.28	ENE OF NABIRE, INDONESIA
#- 1860	12/21	6	38	29.0	−22.28	171.73	122	5.5	-	82.58	WNW OF ILE HUNTER, NEW CALEDONIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1861	12/21	8	23	48.3	−35.01	−92.20	10	5.3	-	69.98	WEST CHILE RISE
#- 1862	12/21	15	12	30.9	6.76	126.09	64	4.5	-	95.27	ESE OF BITAOGAN, PHILIPPINES
#- 1863	12/21	17	32	38.2	−11.06	164.61	38	5.1	-	91.46	WSW OF LATA, SOLOMON ISLANDS
#- 1864	12/21	17	51	54.0	53.42	91.76	31	5.0	-	128.35	NW OF SHUSHENSKOYE, RUSSIA
#- 1865	12/21	17	56	33.5	−11.03	164.71	20	5.2	-	91.52	WSW OF LATA, SOLOMON ISLANDS
#- 1866	12/21	18	12	3.0	−11.08	164.74	48	4.8	-	91.48	WSW OF LATA, SOLOMON ISLANDS
#- 1867	12/21	19	42	17.0	−28.76	−66.96	153	4.8	-	68.72	SW OF ARAUCO, ARGENTINA
#- 1868	12/22	1	53	29.0	−32.87	−70.62	95	4.6	-	66.07	SSW OF LOS ANDES, CHILE
#- 1869	12/22	7	29	3.9	−46.45	96.13	10	5.5	-	35.84	SOUTHEAST INDIAN RIDGE
#- 1870	12/22	8	1	30.3	−7.37	128.65	155	4.6	-	82.99	KEPULAUAN BARAT DAYA, INDONESIA
#- 1871	12/22	10	3	9.8	−46.44	96.02	10	5.6	-	35.81	SOUTHEAST INDIAN RIDGE
#- 1872	12/22	12	58	37.0	−46.35	95.81	10	5.4	-	35.81	SOUTHEAST INDIAN RIDGE
#- 1873	12/22	21	29	29.7	−32.60	−178.34	32	4.6	-	74.75	SSE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1874	12/22	21	40	19.5	−31.32	−178.53	32	4.5	-	75.96	ENE OF L'ESPERANCE ROCK, NEW ZEALAND
#- 1875	12/23	6	57	29.1	35.69	142.14	8	5.6	-	127.64	E OF HASAKI, JAPAN
#- 1876	12/23	7	16	40.7	−1.51	100.43	35	4.7	-	78.70	SW OF PAINAN, INDONESIA
#- 1877	12/23	9	11	31.4	36.09	142.41	7	5.3	-	128.11	ENE OF HASAKI, JAPAN
#- 1878	12/23	9	12	27.2	12.77	143.04	92	5.8	-	106.92	WSW OF MERIZO VILLAGE, GUAM
#- 1879	12/23	9	25	12.3	35.50	142.30	17	5.1	-	127.54	E OF HASAKI, JAPAN
#- 1880	12/23	10	5	22.3	−26.85	−176.14	10	4.8	-	80.77	SOUTH OF THE FIJI ISLANDS
#- 1881	12/23	12	5	49.1	−56.14	−25.98	19	5.1	-	30.72	NE OF VISOKOI ISLAND,
#- 1882	12/23	12	31	13.5	−6.34	154.91	79	4.8	-	93.01	W OF PANGUNA, PAPUA NEW GUINEA
#- 1883	12/23	13	16	57.1	−25.62	179.95	513	4.6	-	81.20	SOUTH OF THE FIJI ISLANDS
#- 1884	12/23	16	45	49.3	25.72	−66.61	2	5.2	-	119.47	NORTH ATLANTIC OCEAN
#- 1885	12/23	19	8	6.1	−53.48	8.87	10	4.8	-	20.82	BOUVET ISLAND REGION
#- 1886	12/23	23	14	41.8	−3.92	141.98	65	4.7	-	90.94	SSW OF AITAPE, PAPUA NEW GUINEA
#- 1887	12/24	7	27	25.9	−10.34	161.51	74	4.7	-	91.24	WNW OF KIRAKIRA, SOLOMON ISLANDS
#- 1888	12/24	9	57	50.2	−22.14	−179.51	588	4.7	-	84.71	SSW OF NDOI ISLAND, FIJI
#- 1889	12/24	9	57	60.0	3.46	126.91	48	4.9	-	92.48	NNW OF TOBELO, INDONESIA
#- 1890	12/24	14	24	13.1	−60.36	−48.94	17	4.7	-	35.13	SCOTIA SEA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Coordinates Latitude	Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1891	12/24	15	17	48.0	−60.39	−48.93	15	4.8	-	35.11	SCOTIA SEA
#- 1892	12/24	18	22	30.1	−46.26	96.18	11	4.9	-	36.02	SOUTHEAST INDIAN RIDGE
#- 1893	12/25	0	50	30.3	−18.34	−176.69	300	4.7	-	88.99	W OF NEIAFU, TONGA
#- 1894	12/25	13	4	42.8	−18.12	−177.88	584	4.9	-	88.96	NNE OF NDOI ISLAND, FIJI
#- 1895	12/26	1	16	26.8	5.48	126.47	100	4.6	-	94.21	SSE OF PONDAGUITAN, PHILIPPINES
#- 1896	12/26	3	33	37.0	−46.55	96.34	10	4.8	-	35.83	SOUTHEAST INDIAN RIDGE
#- 1897	12/26	4	37	50.7	−60.31	−47.17	10	4.6	-	34.63	SCOTIA SEA
#- 1898	12/26	7	0	1.9	−1.42	−14.40	10	4.6	-	76.31	NORTH OF ASCENSION ISLAND
#- 1899	12/26	12	38	36.2	−6.07	151.97	46	5.2	-	92.30	S OF KOKOPO, PAPUA NEW GUINEA
#- 1900	12/26	15	41	19.0	−21.61	−177.87	410	4.7	-	85.56	SE OF NDOI ISLAND, FIJI
#- 1901	12/27	7	59	20.8	−27.53	−179.14	386	4.6	-	79.53	NNW OF RAOUL ISLAND, NEW ZEALAND
#- 1902	12/27	20	15	2.1	−29.63	−176.98	10	4.6	-	77.90	ESE OF RAOUL ISLAND, NEW ZEALAND
#- 1903	12/27	20	57	35.4	−17.34	−177.06	488	4.6	-	89.89	FIJI REGION
#- 1904	12/28	6	43	37.4	−56.43	−142.54	10	5.6	-	54.55	PACIFIC-ANTARCTIC RIDGE
#- 1905	12/28	10	23	37.2	20.79	146.62	10	5.1	-	115.64	E OF FARALLON DE PAJAROS, NORTHERN MARIANA ISL.
#- 1906	12/28	15	10	11.0	−23.37	−67.22	230	4.6	-	73.83	ESE OF SAN PEDRO DE ATACAMA, CHILE
#- 1907	12/28	15	20	13.9	−23.76	−174.78	10	5.0	-	84.05	S OF `OHONUA, TONGA
#- 1908	12/28	15	21	4.1	36.03	31.31	41	5.9	-	105.19	SSW OF AVSALLAR, TURKEY
#- 1909	12/28	18	24	58.2	−20.02	−177.44	538	4.8	-	87.20	ENE OF NDOI ISLAND, FIJI
#- 1910	12/28	18	59	4.9	−1.37	−15.17	10	5.8	-	76.59	NORTH OF ASCENSION ISLAND
#- 1911	12/28	19	6	16.8	−18.20	−174.32	96	5.9	-	89.58	NW OF NEIAFU, TONGA
#- 1912	12/28	19	31	23.8	20.76	146.67	12	5.6	-	115.62	E OF FARALLON DE PAJAROS, NORTHERN MARIANA ISL.
#- 1913	12/29	0	47	58.2	−5.49	130.98	182	4.6	-	85.58	W OF TUAL, INDONESIA
#- 1914	12/29	9	38	27.9	−11.50	165.31	7	4.8	-	91.24	SSW OF LATA, SOLOMON ISLANDS
#- 1915	12/29	9	55	51.2	−22.25	−179.79	576	4.6	-	84.54	SSW OF NDOI ISLAND, FIJI
#- 1916	12/29	12	49	16.7	−5.61	153.99	24	5.5	-	93.40	SE OF TARON, PAPUA NEW GUINEA
#- 1917	12/29	14	29	52.8	0.01	123.37	156	5.0	-	87.99	SSE OF BILUNGALA, INDONESIA
#- 1918	12/29	14	53	24.7	1.34	126.27	35	5.1	-	90.27	E OF BITUNG, INDONESIA
#- 1919	12/29	15	8	33.6	−33.95	−70.06	109	4.6	-	64.89	SE OF PUENTE ALTO, CHILE
#- 1920	12/29	15	37	38.1	1.30	126.25	43	5.7	-	90.22	E OF BITUNG, INDONESIA

Table 2. Continued.

No.	Date	Origin time UTC			Geographic Latitude	Coordinates Longitude	Dep	Magnitude		Epicentral distance	Region
		h	m	s	(deg)	(deg)	(km)	Mb	Ms	(deg)	
#- 1921	12/29	17	8	43.0	41.37	14.45	11	5.1	-	111.87	NE OF SAN POTITO SANNITICO, ITALY
#- 1922	12/29	17	39	29.0	−21.27	−68.40	124	4.6	-	76.19	NNE OF CALAMA, CHILE
#- 1923	12/29	17	49	55.4	10.48	126.97	37	5.0	-	99.05	ENE OF SAN ISIDRO, PHILIPPINES
#- 1924	12/31	18	26	45.1	−8.33	117.00	144	4.7	-	77.94	NW OF ORONG, INDONESIA
#- 1925	12/31	20	1	6.5	19.12	120.27	11	5.7	-	104.74	NNW OF BURGOS, PHILIPPINES
#- 1926	12/31	20	4	32.4	19.06	120.31	21	5.0	-	104.69	NNW OF DAVILA, PHILIPPINES
#- 1927	12/31	21	32	1.7	19.12	120.18	10	5.2	-	104.71	NNW OF DAVILA, PHILIPPINES